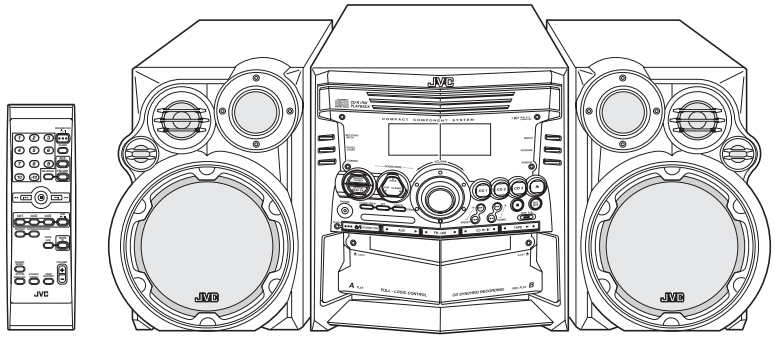
JVC

SERVICE MANUAL

COMPACT COMPONENT SYSTEM

MX-KB30



SP-MXKB30 CA-MXKB30 SP-MXKB30

COMPACT disc DIGITAL AUDIO

Area Suffix
J ---------- U.S.A.
C ---------- Canada

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No.MB157
2004/2

SPECIFICATION

Amplifier	Output Power	150 W per channel, min. RMS, driven into 6 Ω at 1kHz, with no more than 10% total harmonic distortion
	Input Sensitivity/Impedance (1 kHz)	AUX IN : 300 mV/50 kΩ
	Speaker terminals	6 - 16 Ω
	Phones	32 Ω - 1 kΩ
Cassette Deck	Frequency Response Type I (NORMAL)	15 mW/ch output into 32 Ω 63 Hz - 12 500 Hz
	Wow And Flutter	0.15% (WRMS)
CD Player	CD Capacity	3 CDs
	Dynamic Range	85 dB
	Signal-To-Noise Ratio	85 dB
	Wow And Flutter	Unmeasurable
Tuner	FM Tuner	Tuning Range : 87.5 MHz - 108.0 MHz
	AM Tuner	Tuning Range : 530 kHz - 1 710 kHz
Unit	Dimensions	267 mm × 305 mm × 433 mm (W/H/D) (10-9/16" × 12-1/16" × 17-1/16")
	Mass	Approx. 8.7 kg (19.2 lbs)
Speaker Specifications (each unit)	SP-MXKB30	3-way bass-reflex type
	Type	Woofer: 16 cm (6-5/16") cone × 1
	Speaker Unit	Mid: 5cm (2") cone × 1
		Tweeter: 2 cm (13/16") dome × 1
	Power Handling Capacity	150 W
	Impedance	6 Ω
	Frequency Range	45 Hz - 22,000 Hz
	Sound pressure level	87 dB/W·m
	Dimensions	244 mm × 321 mm × 258 mm (W/H/D) (9-5/8" × 12-11/16" × 10-3/16")
	Mass	Approx. 3.6 kg (8.0 lbs)
Power Specifications	Power Requirements	AC 120 V , 60 Hz
	Power Consumption	135 W (power on mode)
		18 W (in Standby mode)

Design and specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 Safety Precautions

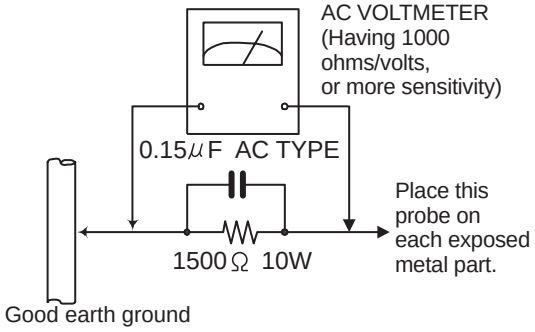
(1) This design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.

(2) Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturers warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.

(3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.

(4) The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

(5) Leakage shock hazard testing
After reassembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.Do not use a line isolation transformer during this check.
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
- Alternate check method
Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000Ω per volt or more sensitivity in the following manner. Connect a 1,500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground.
Measure the AC voltage across the resistor with the AC voltmeter.
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Voltage measured any must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



1.2 Warning

(1) This equipment has been designed and manufactured to meet international safety standards.
(2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
(3) Repairs must be made in accordance with the relevant safety standards.
(4) It is essential that safety critical components are replaced by approved parts.
(5) If mains voltage selector is provided, check setting for local voltage.

1.3 Caution

Burrs formed during molding may be left over on some parts of the chassis.
Therefore, pay attention to such burrs in the case of preforming repair of this system.

1.4 Critical parts for safety

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▮) and ICP (●) or identified by the " ⚠ " mark nearby are critical for safety. When replacing them, be sure to use the parts of the same type and rating as specified by the manufacturer.
(This regulation dose not Except the J and C version)

1.5 Preventing static electricity

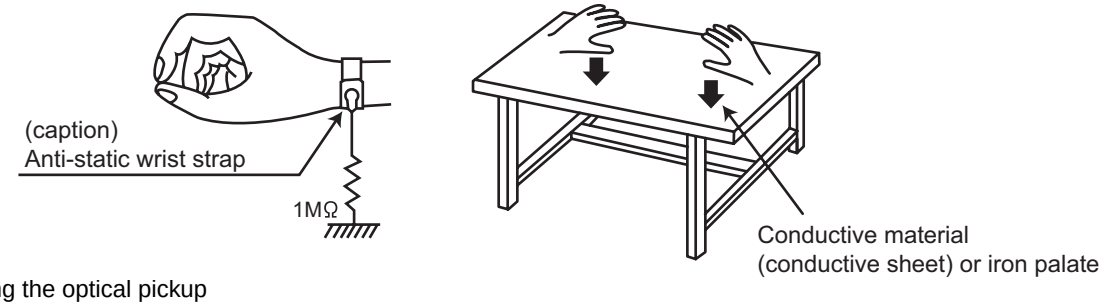
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.5.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as CD players.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup
- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

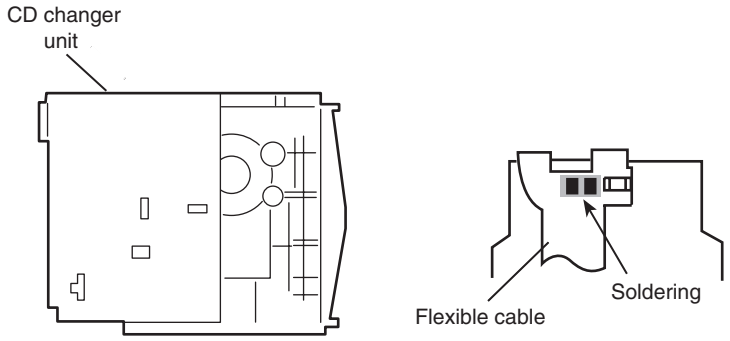
1.6 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
(3) Handle the flexible cable carefully as it may break when subjected to strong force.
(4) I t is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

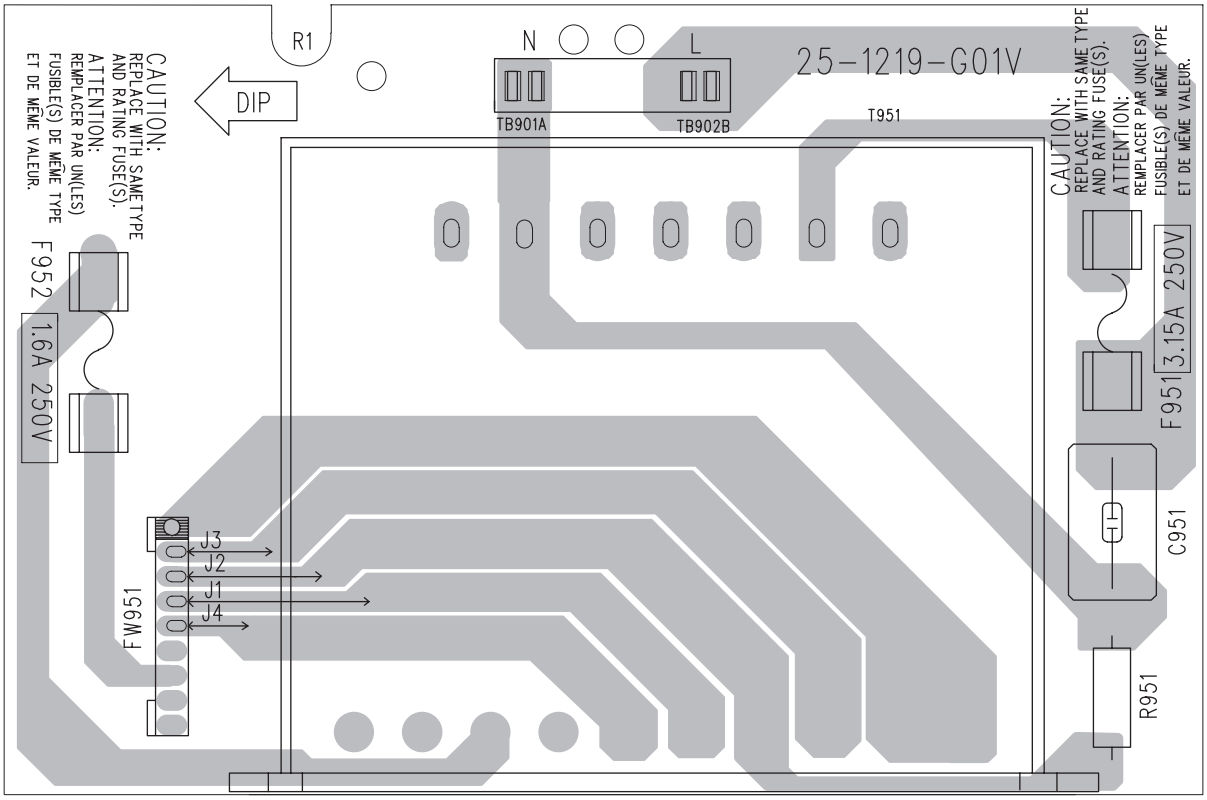
1.7 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the CD pickup unit.**

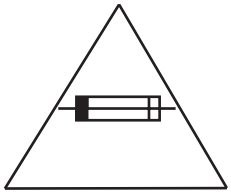
- Apply solder to the short land sections before the flexible wire is disconnected from the connector on the CD servo board. (If the flexible wire is disconnected without applying solder, the CD pickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land sections after connecting the flexible wire.



1.8 Importance administering point on the safety



For USA and Canada / pour États - Unis d' Amérique et Canada



Caution: For continued protection against risk of fire, replace only with same type 3.15A/250V for F951 and 1.6A/250V for F952. This symbol specifies type of fast operating fuse.

Précaution: Pour eviter risques de feux, remplacez le fusible de sureté de F951 comme le meme type que 3.15A/250V, et 1.6A/250V pour F952.
Ce sont des fusibles sûretes qui functionnes rapide.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3
DISASSEMBLY

3.1 Main body

3.1.1 Replacing the fuses (See Fig.1)

- Prior to performing the following procedure, remove the top cover.
  (1) Replace the fuses inside.

Caution:
Be sure to use fuses with the specified ratings.

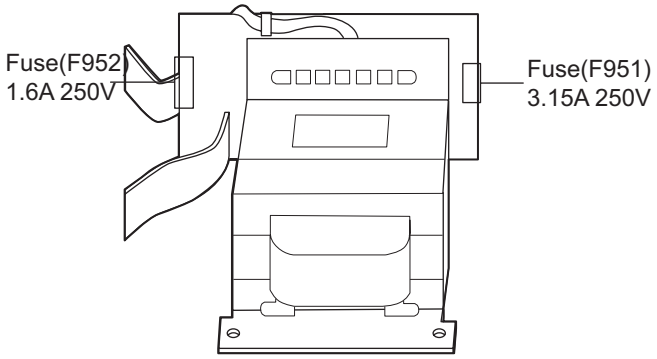


Fig.1

3.1.2 Replacing the power IC (See Fig.2)

- Prior to performing the following procedure, remove the top cover.
  (1) Remove the two screws **A** from the heat sink between the power IC.
  (2) Remove the solder fixing the power IC.

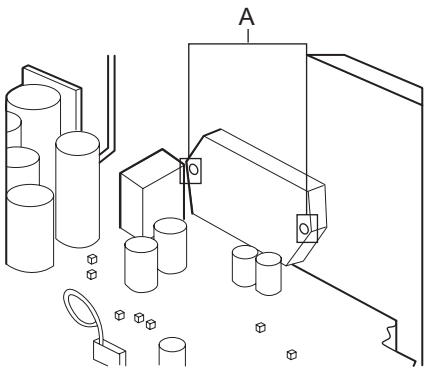


Fig.2

3.1.3 Replacing the heat sink cover (See Fig.3)

(1) Remove four screws **B** from the rear panel.
(2) Pull the heat sink cover outward.

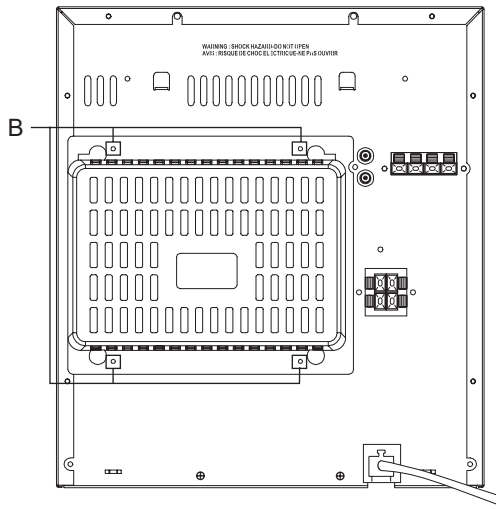


Fig.3

3.1.4 Removing the top cover (See Fig.4 and 5)

(1) Remove six screws **C** that retain the top cover from the panel rear of the body.
(2) Remove six screws **D** that retain the top cover from the two sides of the body.
(3) Remove the top cover from the body by lifting it toward the rear.

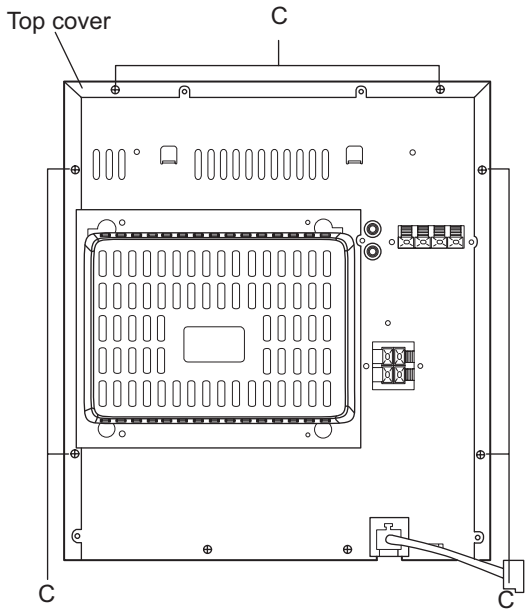


Fig.4

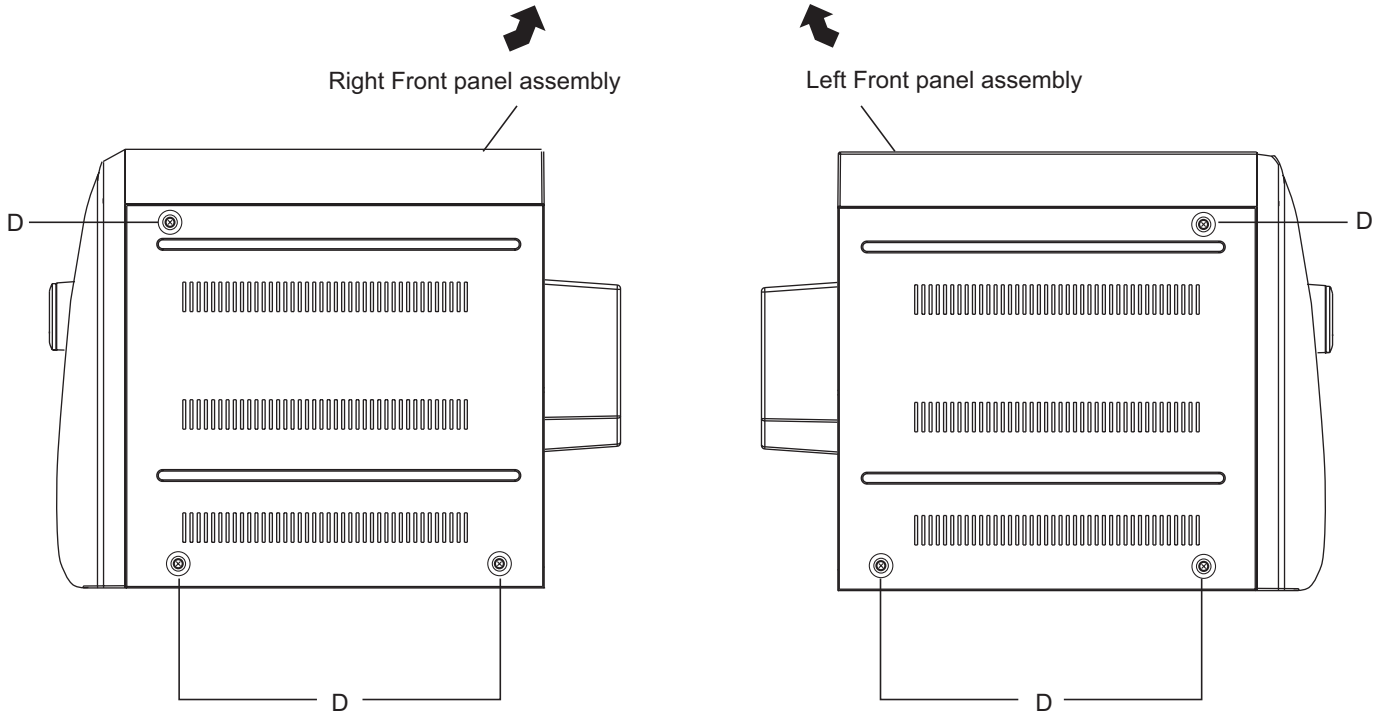


Fig.5

3.1.5 Removing the CD changer unit (See Fig.6 to 9)

- Prior to performing the following procedures, remove the top cover.

Caution:

Although the CD mechanism unit can be removed without removing the CD tray panel, it is still recommended to remove it in order to prevent damage.

- From the front panel side of this set, push in the sections marked with arrows and pull out the CD tray toward the front.
- Remove the CD tray panel by pushing both of its extremities upward in the direction of the arrows.
- Push the CD tray deep into the set.

(1) Disconnect the cord wires from the CD board CN703 and CN203.

(2) From the rear of the set, remove two screws **E** three screws **F** and four screws **G** on the front panel left and right side.

(3) Handle the CD changer unit rear, take out the unit.

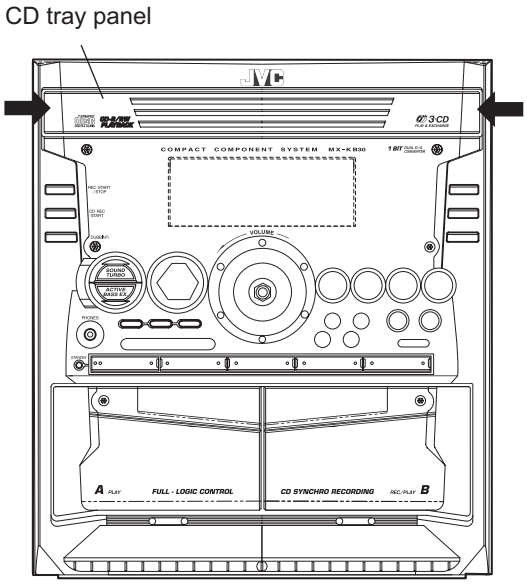


Fig.6

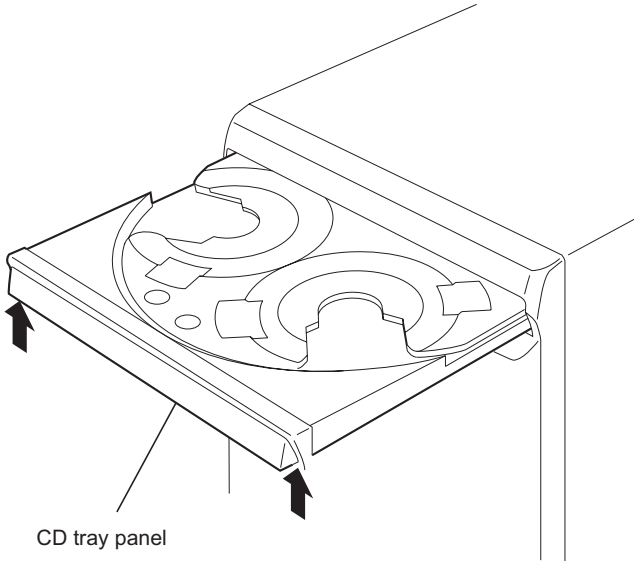


Fig.7

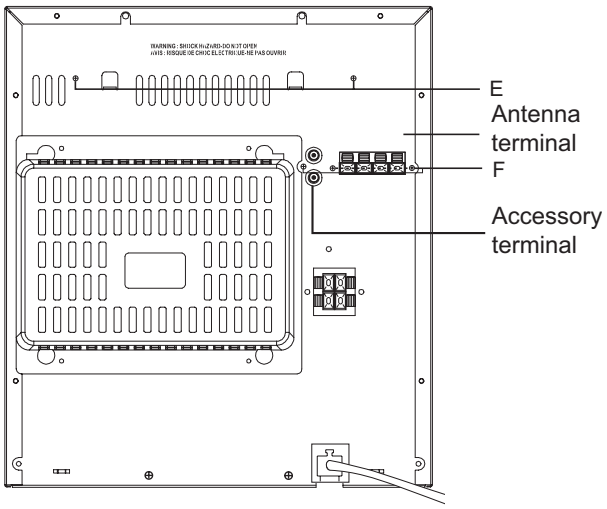


Fig.8

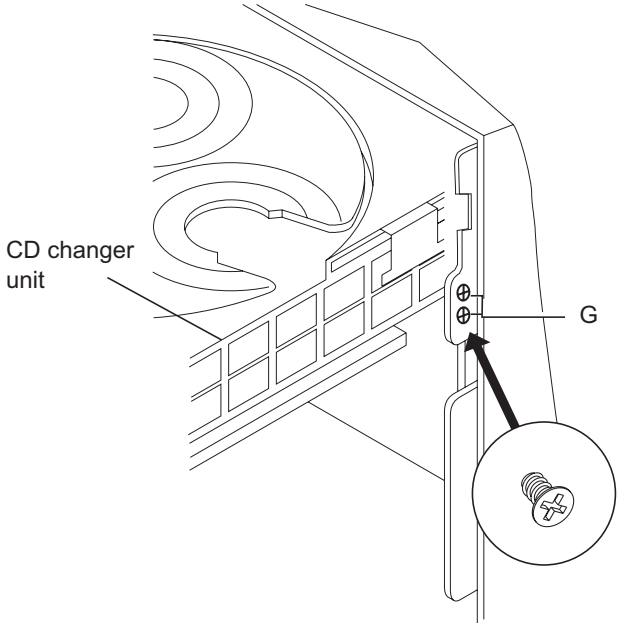


Fig.9

3.1.6 Removing the front panel assembly (See Fig.10 to 11)

- Prior to performing the following procedures, remove the top cover.
- Also remove the CD changer unit.

(1) Disconnect the parallel wire and the cord wire from the connectors CN701, CN101 on the power amp. board.
(2) Remove one screws **H** retaining the front panel assembly onto the bottom of the body.
(3) Remove two screws **I** on the left and right side of the set retaining the panel front from the bottom and then remove then GND lug b that comes from the power amp and supply PCB.
(4) Disengage the claws c on both sides of the front panel assembly and then remove the assembly.

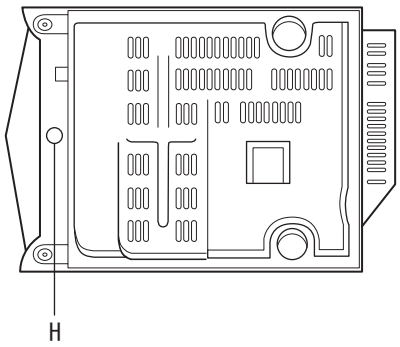


Fig.10

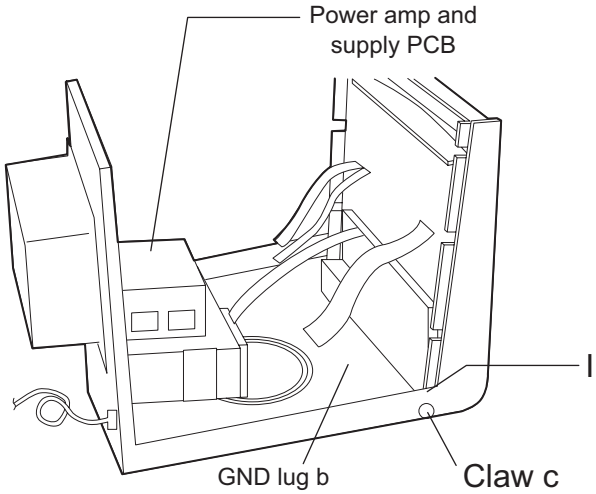


Fig.11

3.1.7 Removing the CD board
(See Fig.12 to 13)

- Prior to performing the following procedures, remove the top cover.
- Also remove the CD changer unit.

(1) Disconnect the wires from CN603A, CN603B and CN604 on the CD board, which is located on the back side of the CD changer unit.

(2) The four screws **J** that retain the CD board should be removed.

(3) Remove the CD board by pulling it toward the side where the CN601 is located.

(4) Using solder, short the CD pickup to connect to short round.

Caution:

After re-connecting the wires, be sure to remove the shorting solder from the GND connection.

(5) Disconnect the card wire from the connector CN601 on the main board and then remove the main board.

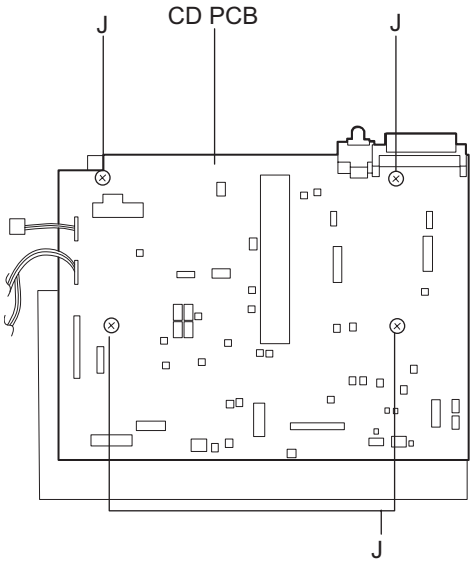


Fig.12

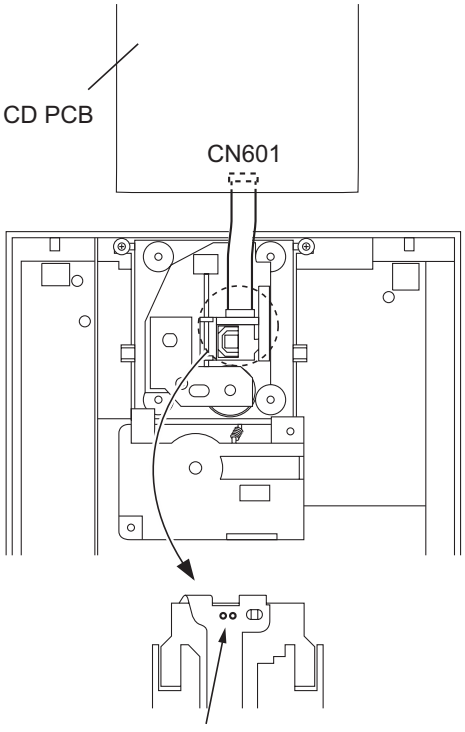


Fig.13

3.1.8 Removing the CD changer mechanism assembly (See Fig.14 to 15)

- Prior to performing the following procedures, remove the top cover.
- Also remove the CD changer unit.

(1) Turn the CD changer mechanism cover base and remove the screws **d** connecting the unit to the CD changer mechanism assembly.

(2) Removing four screws **e** retaining the CD mechanism holder assembly.

Caution:

When replacing the CD changer mechanism assembly, be sure not to mistake the positions of the silver color and copper color spring.

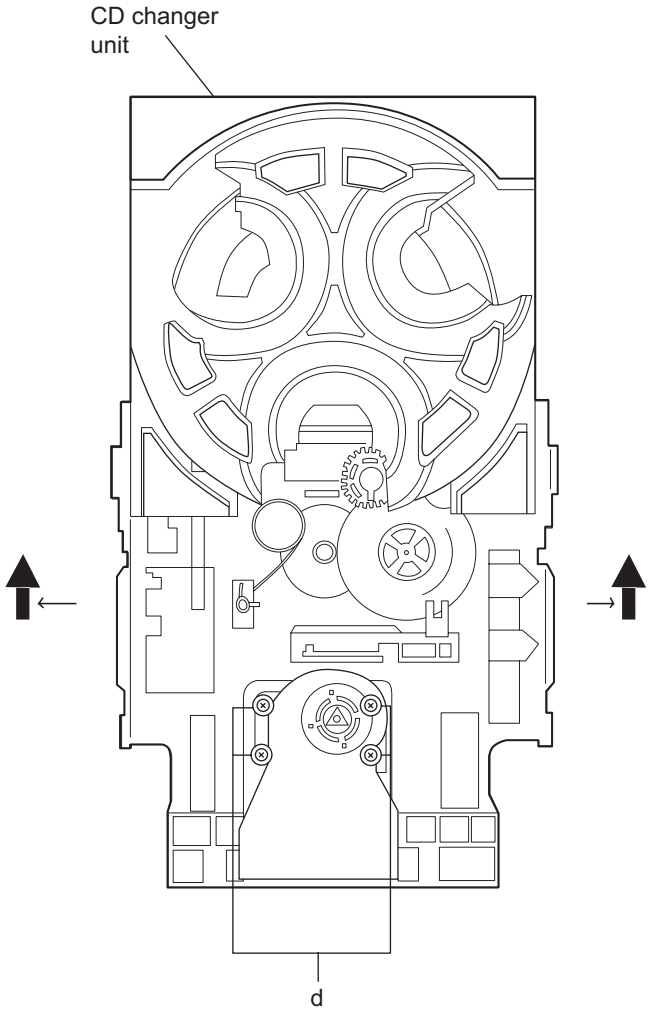


Fig.14

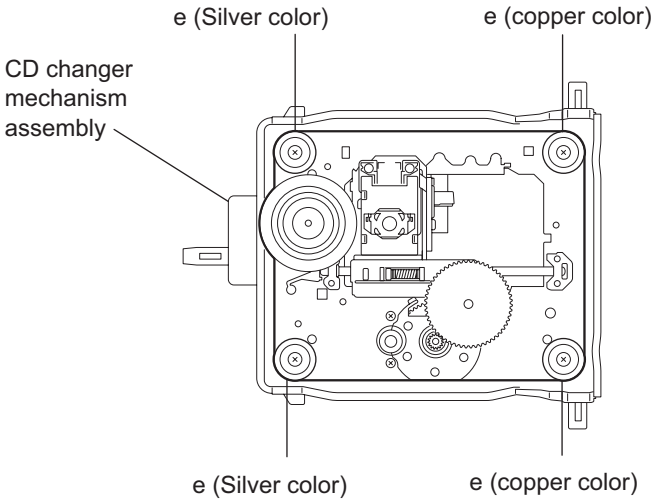


Fig.15

3.1.9 Removing the CD pickup (See Fig.16)

- Prior to performing the following procedures, remove the top cover.
- Also remove the CD changer unit.
- Also remove the CD changer mechanism.
  (1) Widen the section **f**.
  (2) While keeping the section **f** wide open, push the section **g** in the direction of the arrow to remove the shaft, and then remove the CD pickup.

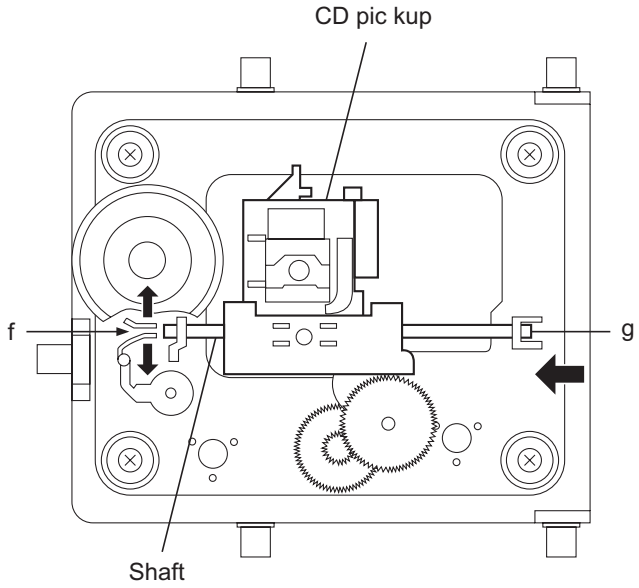


Fig.16

3.1.10 Replacing the loading motor and rotor belt of the CD changer (See Fig .17)

- Prior to performing the following procedures, remove the top cover.
- Also open the CD changer tray.
  (1) Remove the two screws **L** retaining the CD changer tray loading motor.
  (2) Remove the two screws **M** retaining the gear plate and take it out, after remove the rotor belt from the pulley.

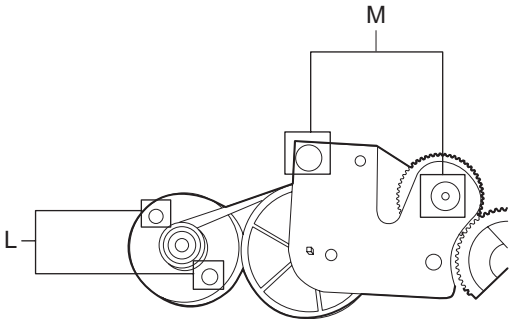


Fig.17

3.1.11 Replacing the CD turn table and removing the motor (See Fig. 18)

- Prior to performing the following procedures, remove the top cover.
- Also remove the CD changer unit.
  (1) Remove the one screws **N** retaining the CD (Turn table).
  (2) Remove the two screws **O** retaining the stopper brackets on both sides of the CD changer unit.
  (3) Remove the stopper brackets from both sides of the CD changer unit.
  (4) Pull out the CD tray from the CD changer unit, all the way and lift the tray (u/~ ward) to remove.
  (5) Remove the gear and after push out the tray motor locker and pull out the tray motor from the CD tray.

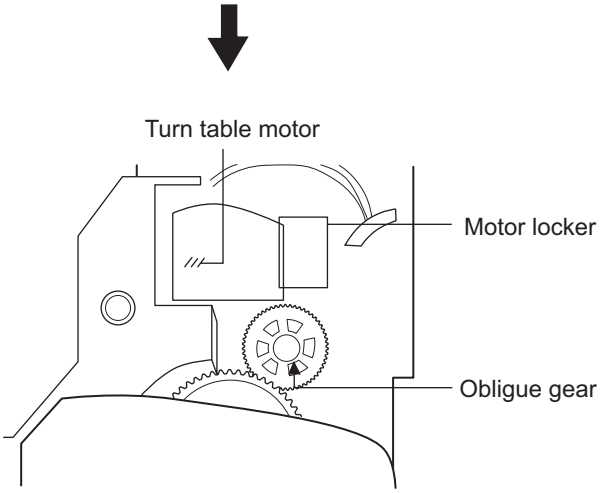


Fig.18

3.1.12 Removing the cassette deck mechanism (See Fig.19)

- Prior to performing the following procedures, remove the top cover.
- Also remove the CD changer unit.
- Also remove the front panel assembly.
  (1) Remove six screws **Z** retaining the cassette deck mechanism.

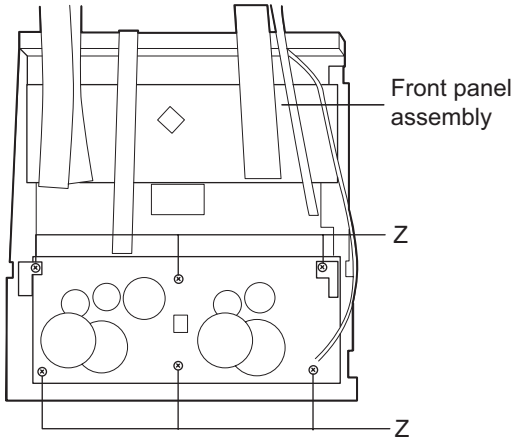


Fig.19

3.1.13 Removing the earphone jack board (See Fig.20)

- Prior to performing the following procedures, remove the top cover.
- Also remove the CD changer unit.
- Also remove the front panel assembly.
  (1) Remove the screw with the washer, **P** that retains the earphone jack PCB.

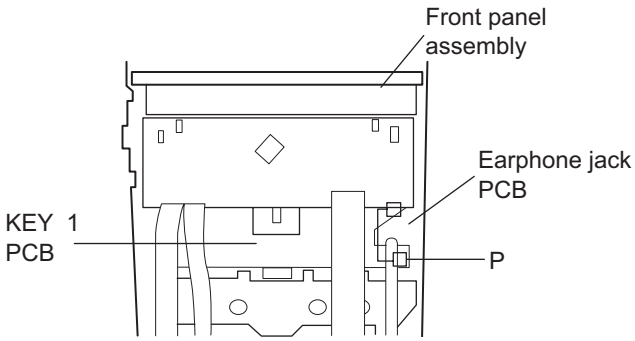


Fig.20

3.1.14 Removing the control/FL board (See Fig.21)

- Prior to performing the following procedures, remove the top cover.
- Also remove the CD changer unit.
- Also remove the front panel assembly.
  (1) Remove six screws **Q** that retain the control/FL PCB from the back of the front panel unit.

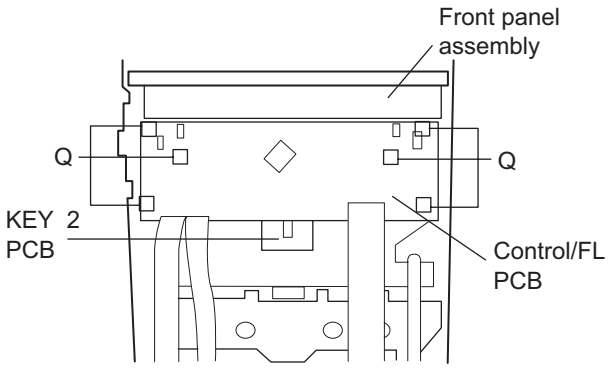


Fig.21

3.1.15 Removing the switch board and sound mode and CD function switch board (See Fig.20 to 23)

- Prior to performing the following procedures, remove the top cover.
- Also remove the CD changer unit.
- Also remove the front panel assembly.
  (1) Pull out the volume control knob from the front of the front panel assembly.(Fig.22)
  (2) Remove six screws **Q** retaining the front panel assembly.(Fig.21)
  (3) Remove the control/FL board.
  (4) Remove eleven screws **R** retaining the switch (key 1) board.(Fig.20)
  (5) Remove two screws **S** retaining the sound mode and CD function (key 2) switch board.(Fig.21)

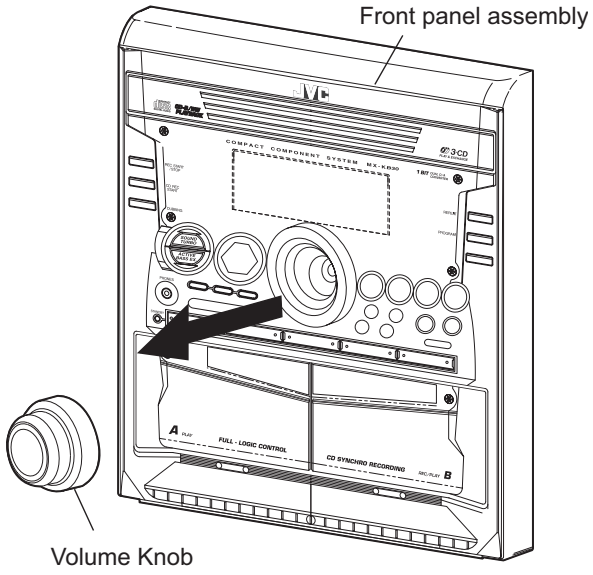


Fig.22

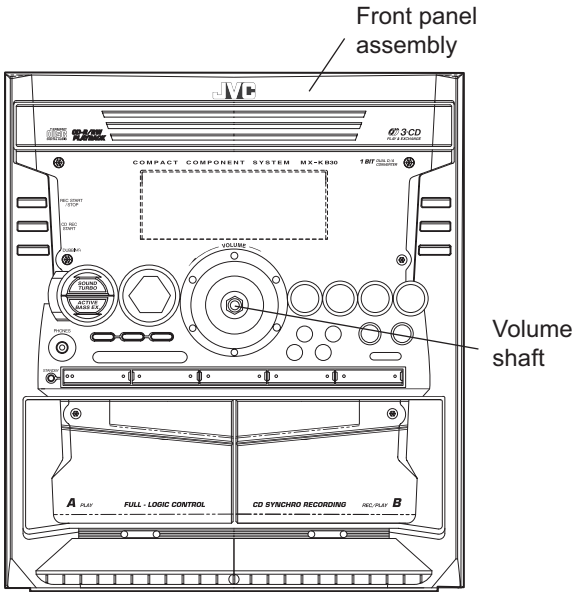


Fig.23

3.1.16 Removing the leaf switches of the cassette deck mechanism (See Fig. 19 and 26)

- Prior to performing the following procedures, remove the top cover and both sides board.
- Also remove the CD changer unit.
- Also remove the front panel assembly.

(1) Remove the six screws **Z** that retain the cassette deck mechanism. (Fig.19)
(2) Remove the cassette deck mechanism.
(3) Turn the cassette deck mechanism upside down.
(4) Remove the solder from around the leaf switches.
(5) Pull out the leaf switches from the front side of the cassette deck mechanism.

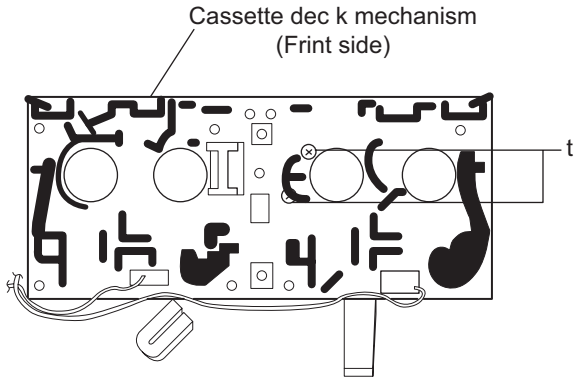


Fig.24

3.1.17 Removing the cassette deck main motor, and replacing the main belts (See Fig.19, 24 and 25)

- Prior to performing the following procedures, remove the top cover and both sides board.
- Also remove the CD changer unit.
- Also remove the front panel assembly.

(1) Remove six screws **Z** retaining the cassette deck mechanism. (Fig.19)
(2) Remove the cassette deck mechanism.
(3) Remove two screws **t** retaining the main motor from the front side of the cassette deck.

Caution:
After attaching the main motor, check the orientation of the motor and the polarity of the wires.

(4) From the backside of the cassette deck, remove the main motor and two main belts.

Caution:
The lengths of the cassette A(playback only) and cassette B(record/play) main belts are different. When attaching the main belts, use the longer belt for cassette A.

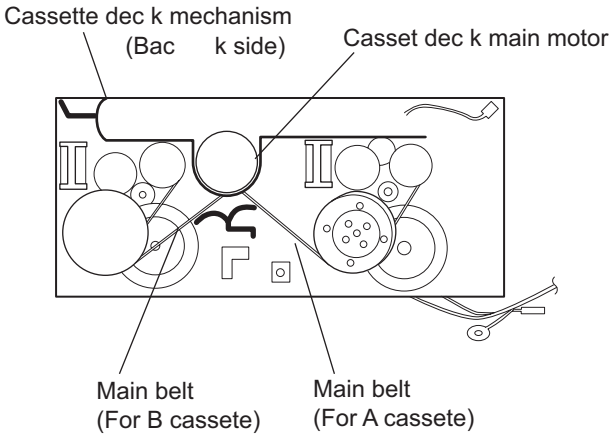


Fig.25

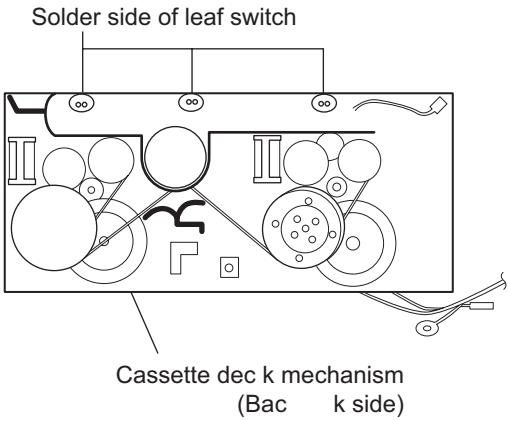


Fig.26

3.1.18 Removing the cassette deck heads
(See Fig. 19 and 27)

- Prior to performing the following procedures, remove the top cover and both sides board.
- Also remove the CD changer unit.
- Also remove the front panel assembly.

(1) Remove six screws **Z** that retain the cassette deck mechanism. (Fig.19)
(2) Remove the cassette deck mechanism and place it so that the front side faces up.
(3) Remove the solder from the bottom side of the head terminal and disconnect the wire.
(4) Remove screw **U** that retains the head.
(5) Remove screw **V** that retains the head.
(6) Hold the head and slide it in the direction of the arrow to remove it.

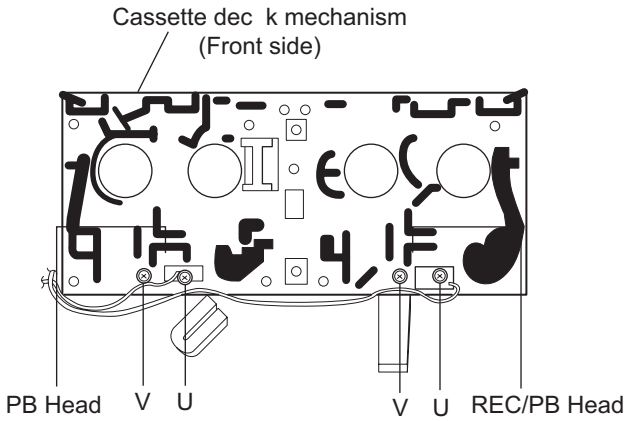


Fig.27

3.1.19 Removing the 3-pin regulator and bridge diode
(See Q904, Q907, D901, D914 and Fig.28)

- Prior to performing the following procedures, remove the top cover and both sides board.

(1) Remove two screws **A** that connect the heat sink.
(2) Remove two screws **W** that connect the heat sink.
(3) Remove the solder fixing the the 3-pin terminal regulator Q904, Q907.
(4) Remove the solder fixing the 4-pin bridge diode (D901, D914).

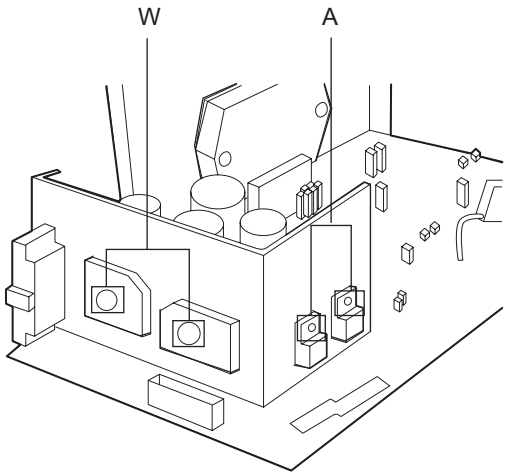


Fig.28

3.1.20 Removing the power amp and supply board and the power trans board (See Fig. 3, 29 to 31)

- Prior to performing the following procedures, remove the top cover and CD changer unit.
  (1) Remove four screws **B** from the rear panel. (Fig.3)
  (2) Pull the heat sink cover outward.
  (3) Remove four screws **AA** from the rear panel between the heat sink holder.
  (4) Remove two screws **X** that retain the speaker terminals and AUX terminal.
  (5) Remove screws **YY** that retains the rear panel, and then remove the rear panel.
  (6) Disconnect the parallel wires from the connectors FW951 on the power trans board.
  (7) Remove the clamp of **AC** power cord from the chassis.
  (8) Remove four screws **AB** that retain the power trans board and then remove the assembly.

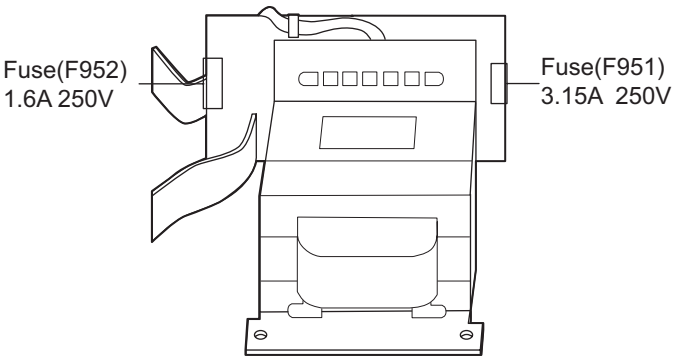


Fig.29

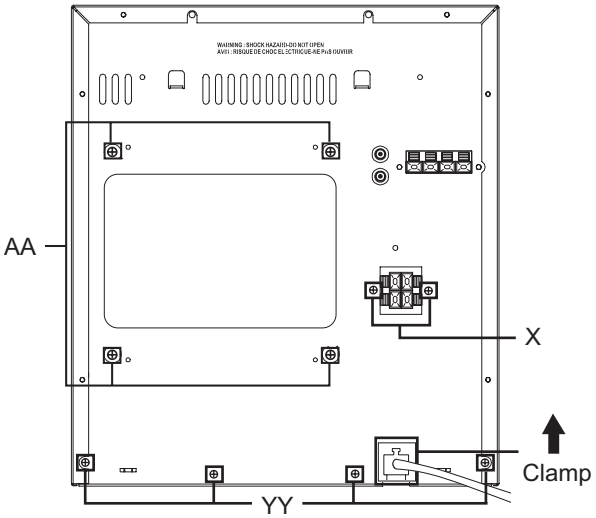


Fig.30

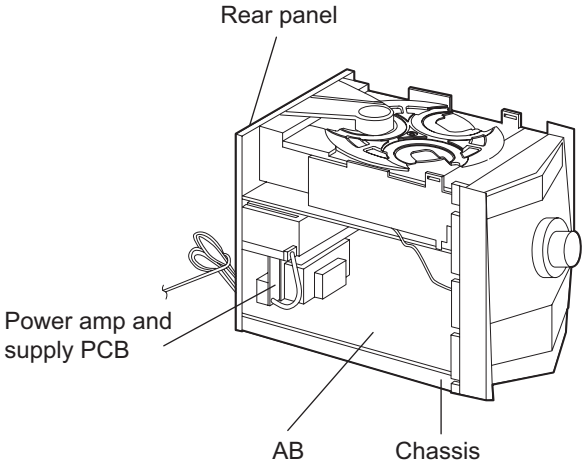


Fig.31

SECTION 4
ADJUSTMENT

4.1 Measurement instruments required for adjustment

(1) Low frequency oscillator
This oscillator should have a capacity to output 0dB to 600ohm at an oscillation frequency of 50Hz-20kHz.
(2) Attenuator impedance : 600Ω
(3) Electronic voltmeter
(4) Frequency counter
(5) Wow flutter meter
(6) Test tape
VT712 : For Tape speed and wow flutter (3kHz)
VT703 : For Head angle (10kHz)
(7) Blank tape
TAPE I : AC-225
TAPE II : AC-514
(8) Torque gauge
For play and back tension forward : TW2111A
Reverse : TW2121A
Fast Forward and Rewind : TW2231A
(9) Test disc : CTS-1000(12cm),GRG-1211(8cm)
(10) Jitter meter

4.2 Measurement conditions

Power supply voltage : AC 120V (60Hz)
Measurement output terminal
: Speaker out
: TP101(Measuring for TUNER/DECK/CD)
: Dummy load 6Ω

4.3 Radio input signal

AM modulation frequency : 400Hz
Modulation factor : 30%
FM modulation frequency : 1kHz
Frequency displacement : 22.5kHz

4.4 Frequency Range

AM : 530kHz~1710kHz
FM : 87.5MHz~108MHz

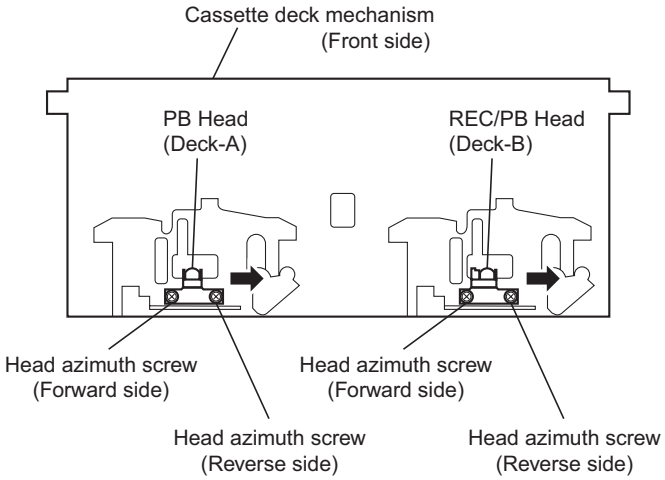
4.5 Standard measurement positions of volume and switch

Power : Standby (Light STANDBY Indicator)
Sound Turbo,A,BASS EX : OFF
Sound mode : OFF
Main VOL. : 0 Minimum
Travers mecha set position : Disc 1

4.6 Precautions for measurement

(1) Apply 30pF and 33k<ohm> to the IF sweeper output side and 0.082<micro>F and 100kohm in series to the sweeper input side.
(2) The IF sweeper output level should be made as low as possible within the adjustable range.
(3) Since the IF sweeper is a fixed device, there is no need to adjust this sweeper.
(4) Since a ceramic oscillator is used, there is no need to perform any MPX adjustment.
(5) Since a fixed coil is used, there is no need to adjust the FM tracking.
(6) The input and output earth systems are separated.
In case of simultaneously measuring the voltage in both of the input and output systems with anelectronic voltmeter for two channels, therefore, the earth should be connected particularly.
(7) In the case of BTL connection amplifier, the minus terminal of speaker is not for earthing. Therefore, be sure not to connect any other earth terminal to this terminal. This system is of an OTL system.

4.7 Arrangement of adjusting positions



4.8 Tape recorder section

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
Cassette Head Azimuth Alignments	Test tape : VT703 (10kHz) Measurement output terminal : Left and Right speaker output (6-ohm loaded) or Headphone Output (32-ohm loaded)	1. Playback the test tape VT703 (10KHz) or equivalent. 2. Adjust the head azimuth screw to obtain maximum output and both output of L / R is in 3dB. 3. Put on the screw lock paint after alignments.	Maximum output	Adjust the head azimuth screw only when the head has been changed.
Recording Bias Frequency Alignment	Test tape : TYPE I AC-514 Measurement output terminal : Erase head terminal (CN308 8-Pin)	1. Insert the recording tape in deck-B. 2. Starting the recording. 3. Adjust the oscillation frequency to 80KHz+/-3KHz by core of Oscillation coil of L301.	80kHz+/-3kHz	Use the High-Impedance Probe or Frequency counter input.

4.9 Tuner section

Items	Measurement conditions	Measurement method	Standard values	Adjusting positions
AM Tracking Alignments	Input signal : 530kHz 600kHz Adjustment point : Antenna coil (L2)	1. Set the Signal Generator signal to 530KHz the feed to Loop Antenna. 2. Receiving the signal and the adjust the OSC coil (L2) obtain the V.T is 1.40V +/-0.05V. 3. Change the receiving frequency to 600KHz (603KHz). 4. Adjust the Antenna coil (L2) obtain maximum sensitivity. (Adjust the SSG output to out of AGC range.)	V.T : 1.40V+/-0.05V Maximum sensitivity	Adjust the OSC coil only when the AM coil block has been changed.
AM IFT Alignments	Input signal : 530kHz Adjustment point : IFT (T1)	1. Set the receiving frequency to 530KHz. 2. Feed the 450KHz signal to AM antenna input. 3.Adjust the IFT Block T1 obtain to maximum output. (Adjust the SSG output to out of AGC range.)	Maximum output	Adjust the IFT only when the IFT block has been changed.

Note: The adjustment of CD section is not required.

SECTION 5
TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.

JVC
VICTOR COMPANY OF JAPAN, LIMITED
AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB157)

Printed in Japan
WPC

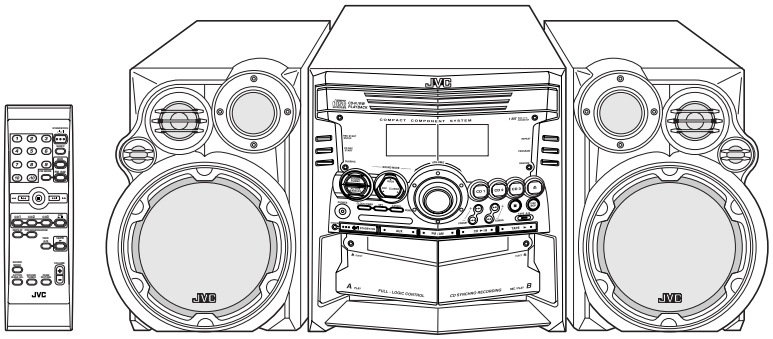
JVC

SCHEMATIC DIAGRAMS

COMPACT COMPONENT SYSTEM

MX-KB30

CD-ROM No.SML200402



SP-MXKB30 **CA-MXKB30** **SP-MXKB30**

COMPACT disc DIGITAL AUDIO

Area Suffix	
J	U.S.A.
C	Canada

Contents

Block diagram ---------- 2-1
Standard schematic diagrams ---------- 2- 2
Printed circuit boards ---------- 2- 8

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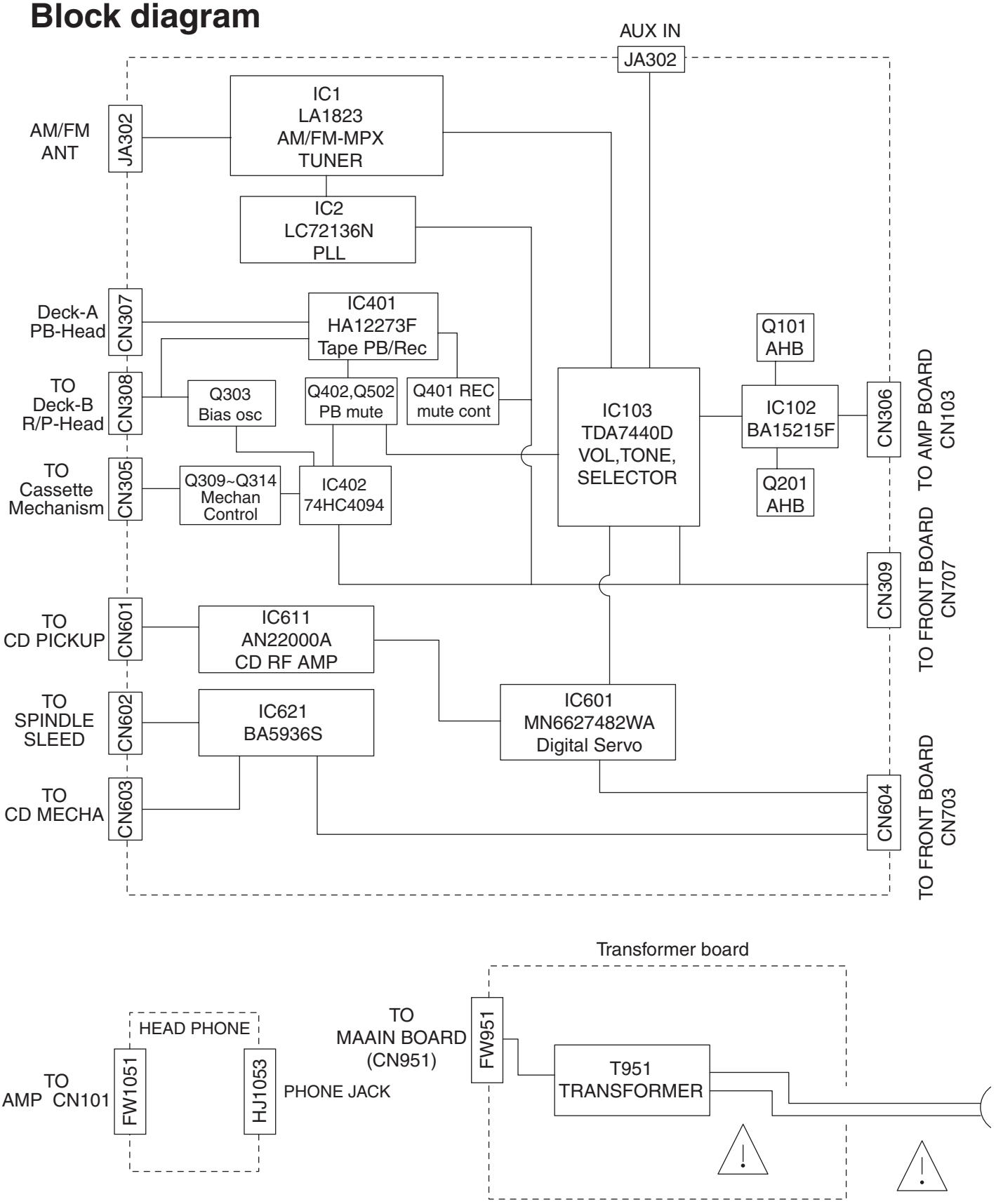
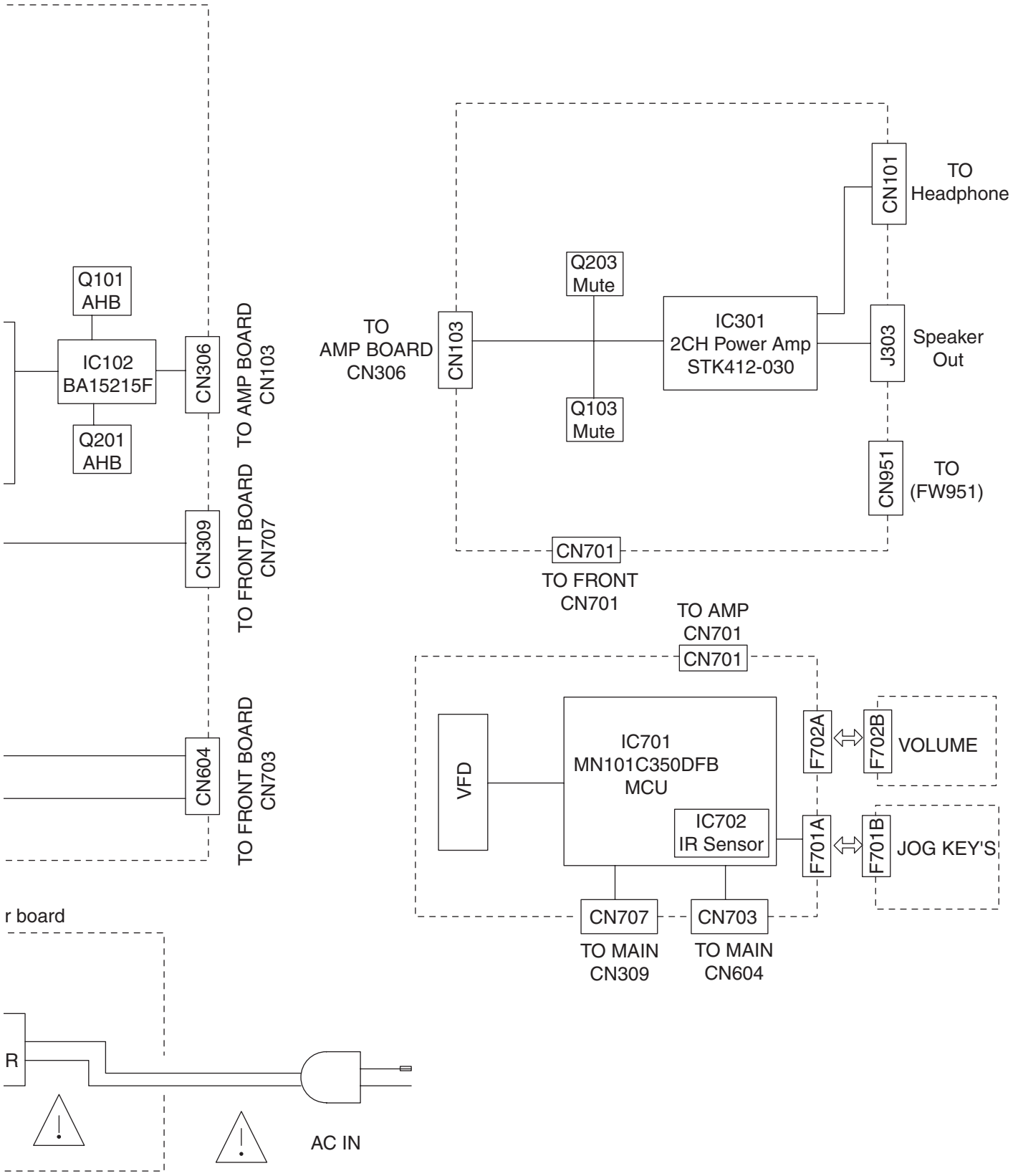
No.MB157SCH
2004/2

In regard with component parts appearing on the silk-screen printed side (parts side) of the PWB diagrams, the parts that are printed over with black such as the resistor (▬), diode (▬) and ICP (●) or identified by the "⚠" mark nearby are critical for safety.

< MEMO >

Block diagram

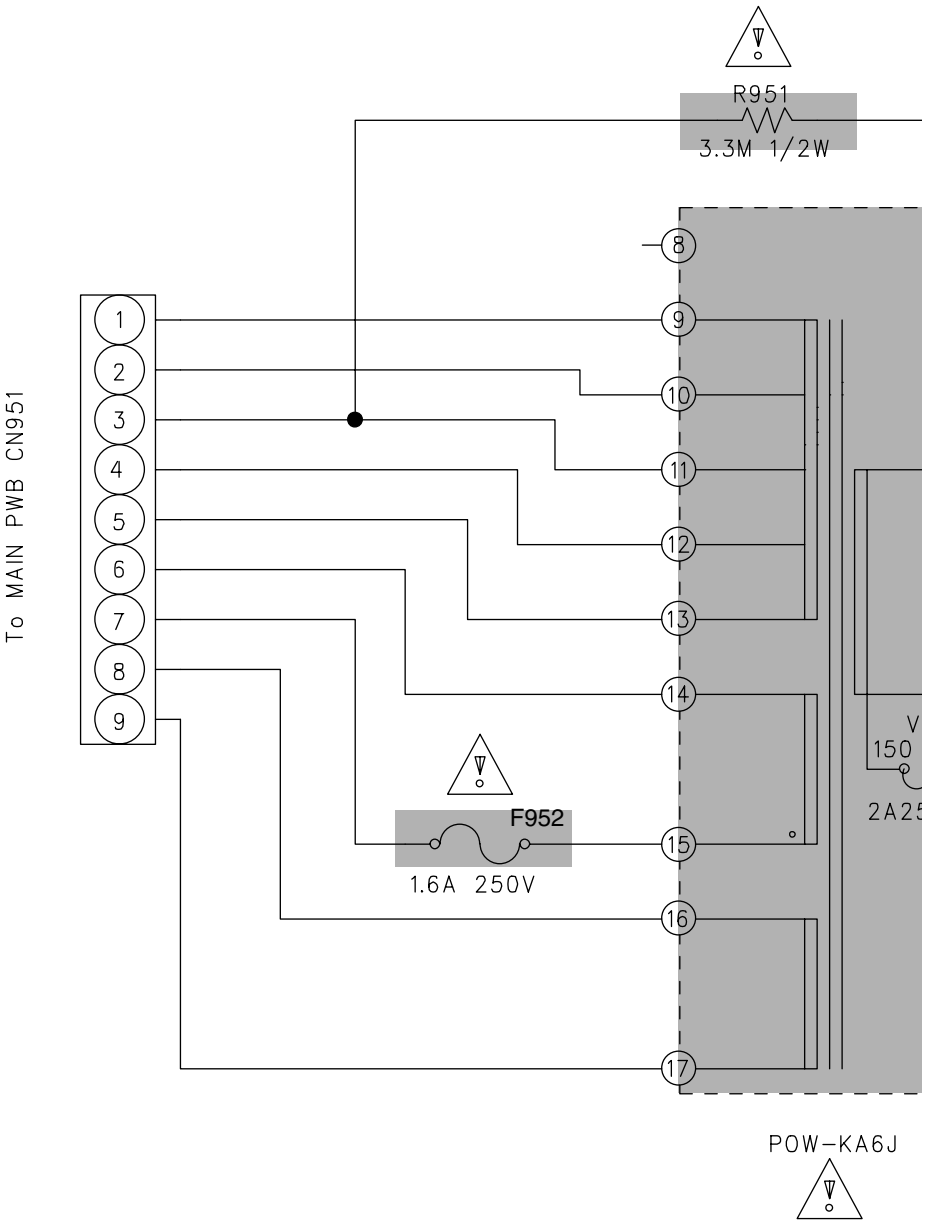



Q101
AHB
IC102
BA15215F
Q201
AHB
CN306
TO AMP BOARD
CN103
CN309
TO FRONT BOARD
CN707
CN604
TO FRONT BOARD
CN703
r board
R
AC IN
TO
AMP BOARD
CN306
CN103
Q203
Mute
Q103
Mute
IC301
2CH Power Amp
STK412-030
CN101
TO
Headphone
J303
Speaker
Out
CN951
TO
(FW951)
CN701
TO FRONT
CN701
TO AMP
CN701
CN701
VFD
IC701
MN101C350DFB
MCU
IC702
IR Sensor
F702A
F702B
VOLUME
F701A
F701B
JOG KEY'S
CN707
TO MAIN
CN309
CN703
TO MAIN
CN604

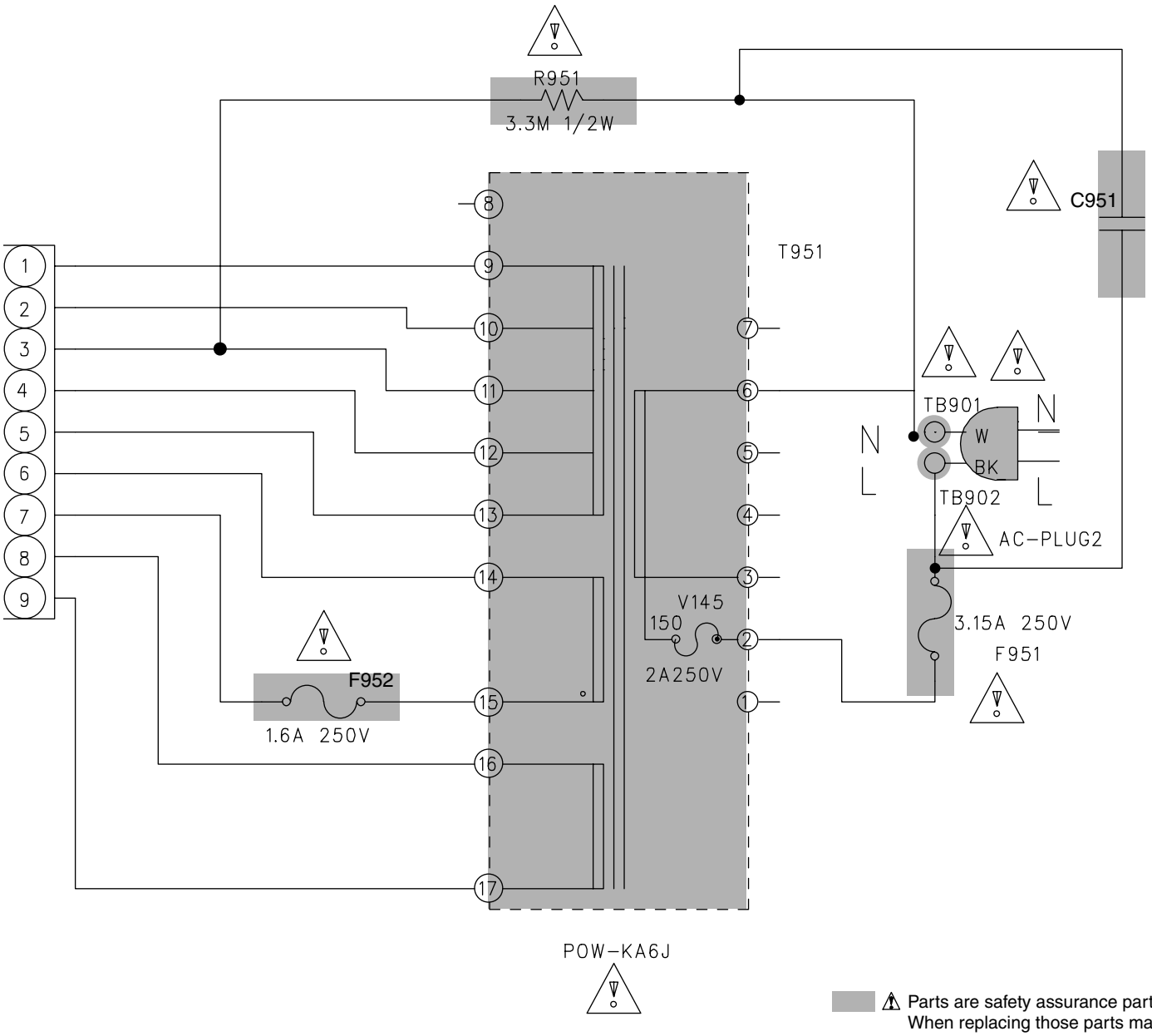
Standard schematic diagrams

■ Power transformer section

J/C Version

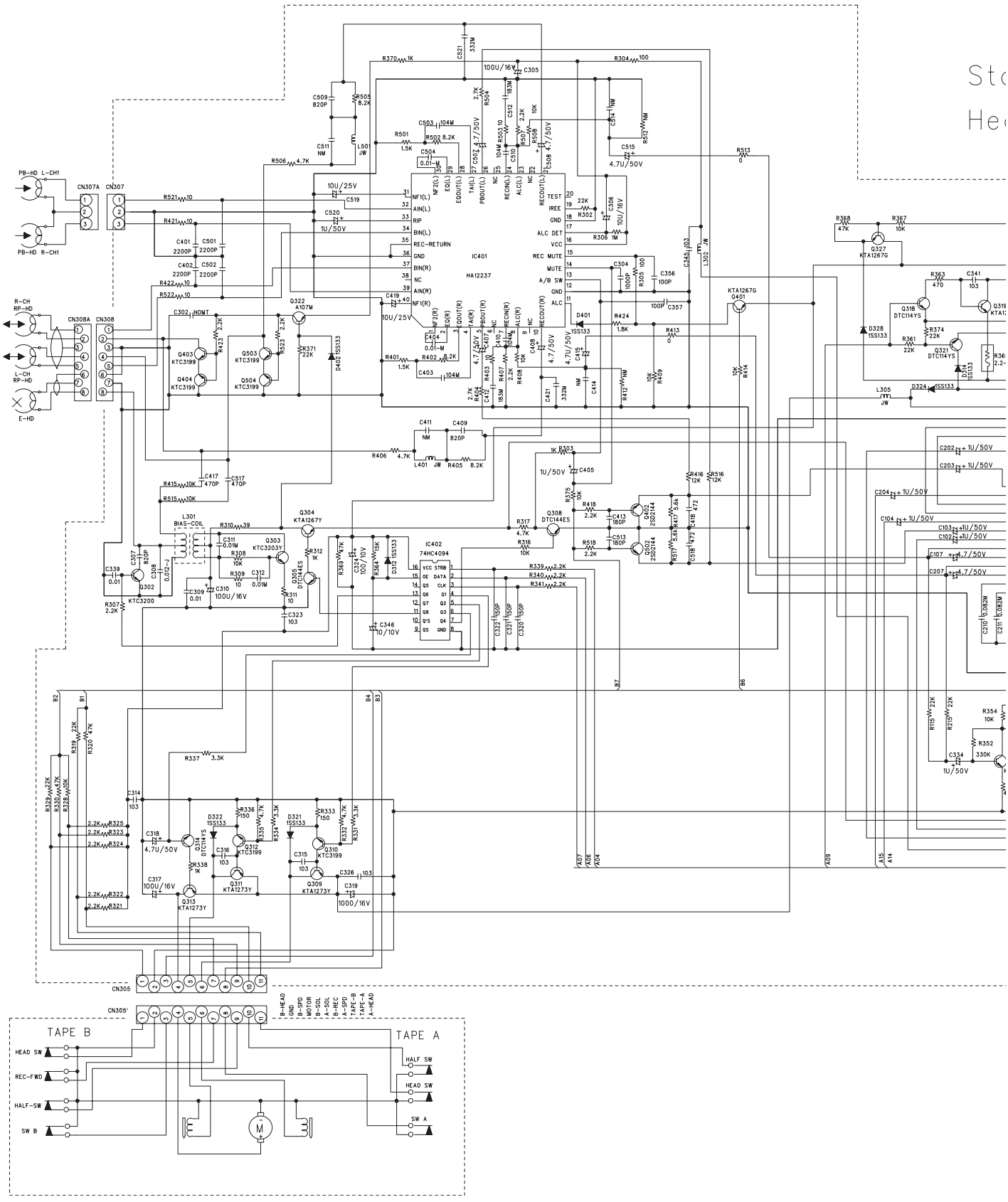


'ams

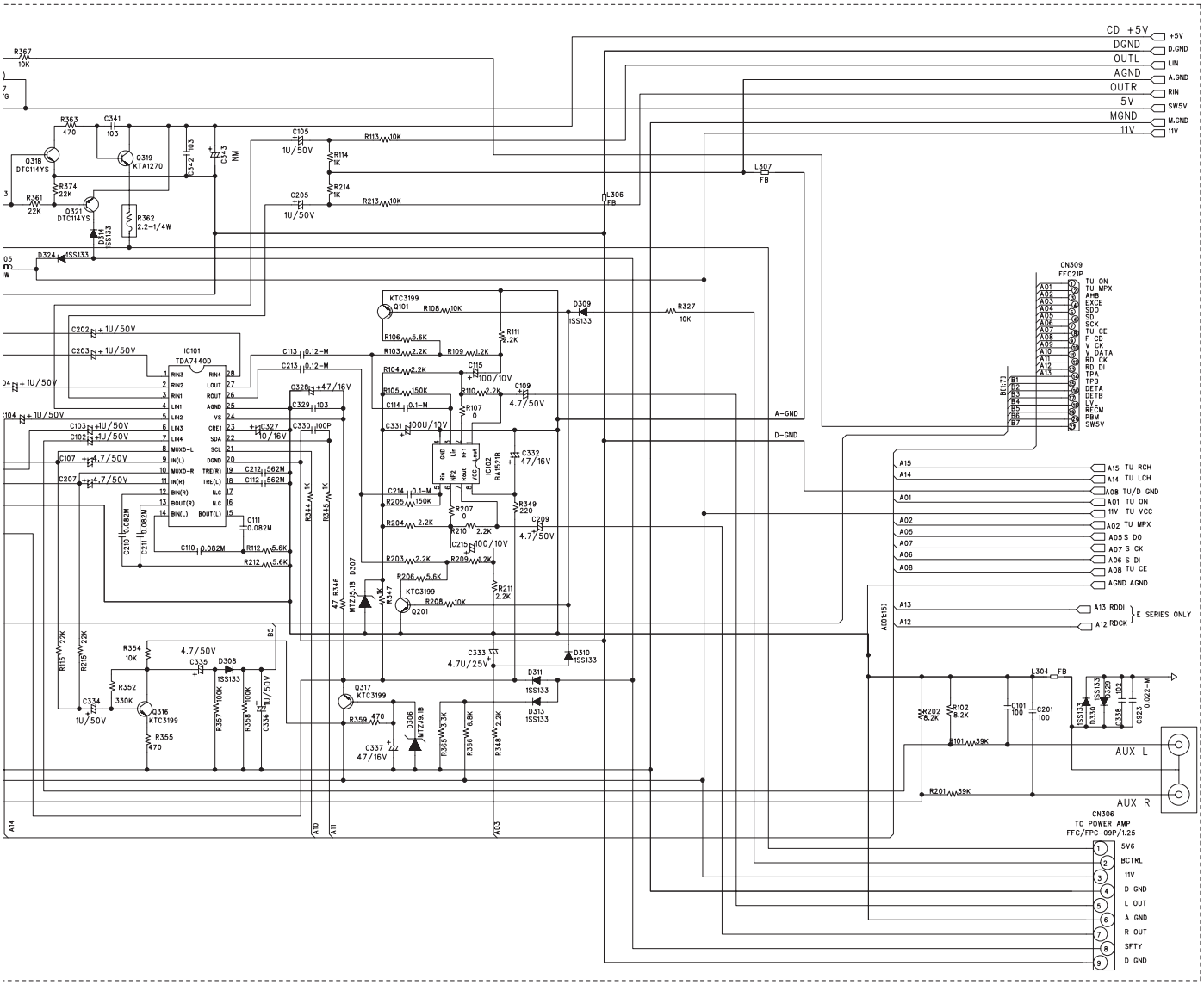


⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

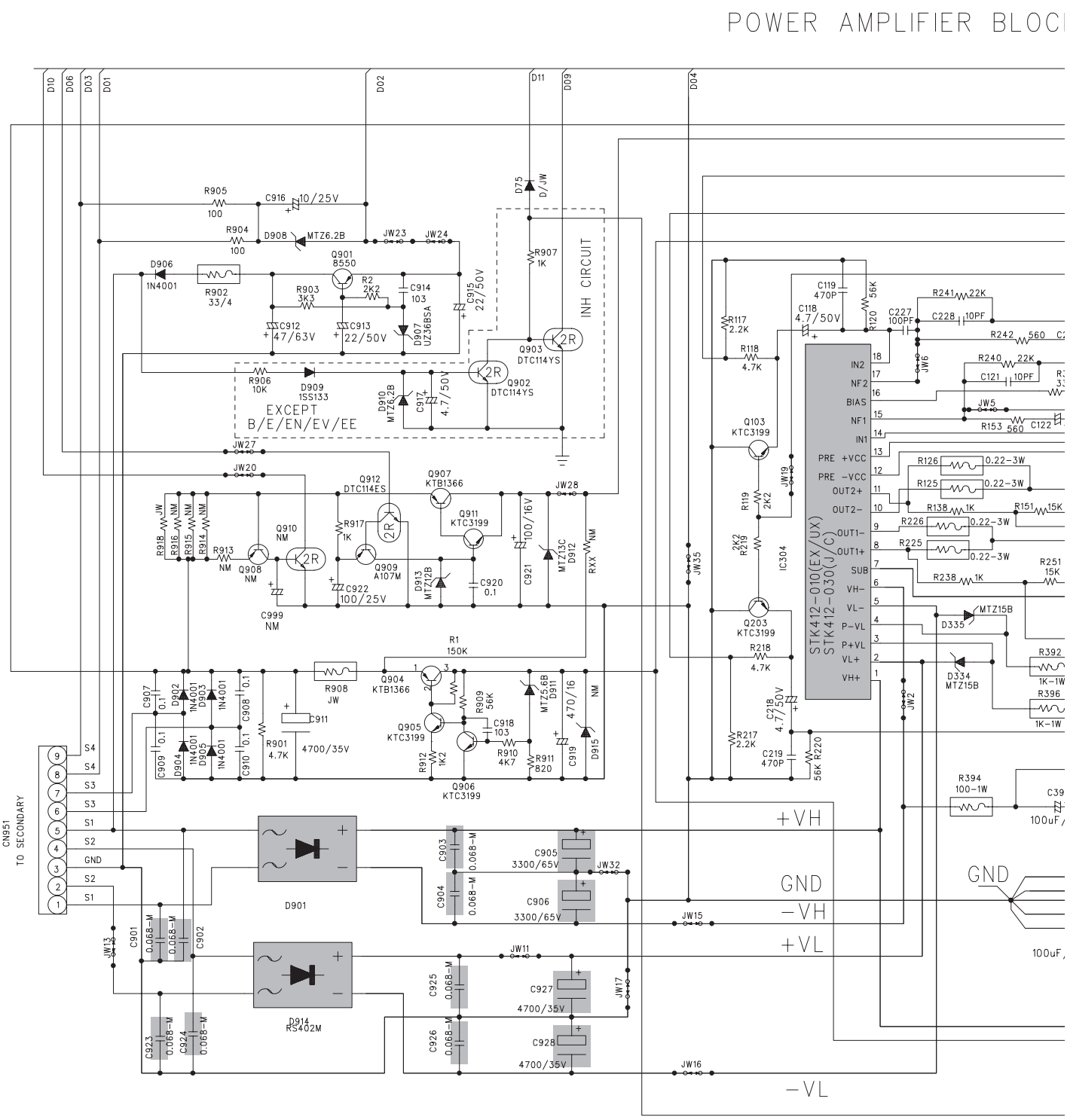
■ Main section



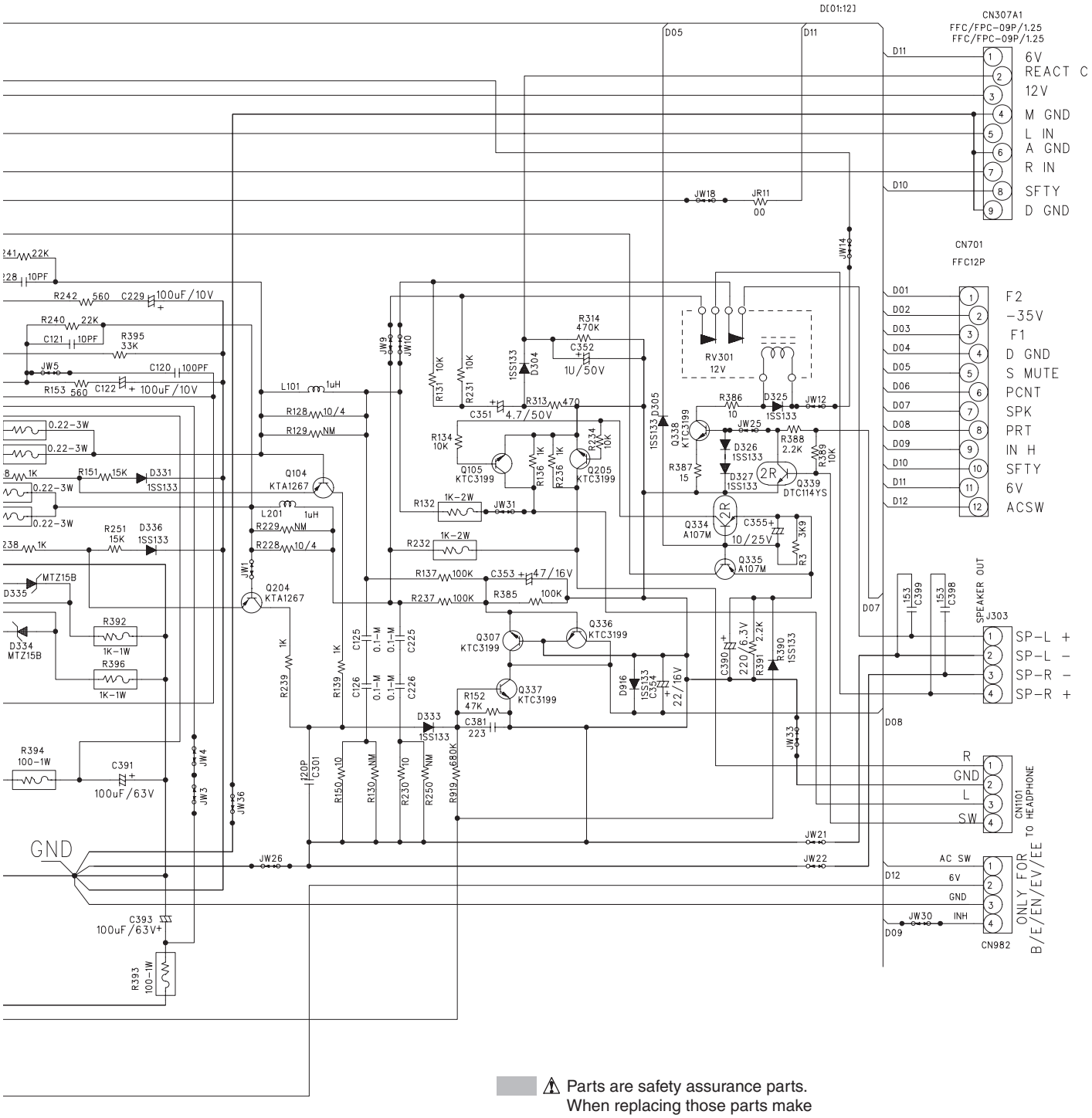
Standard Schematic Diagram
Head AMP/AUX/VOLUME



■ Amplifier

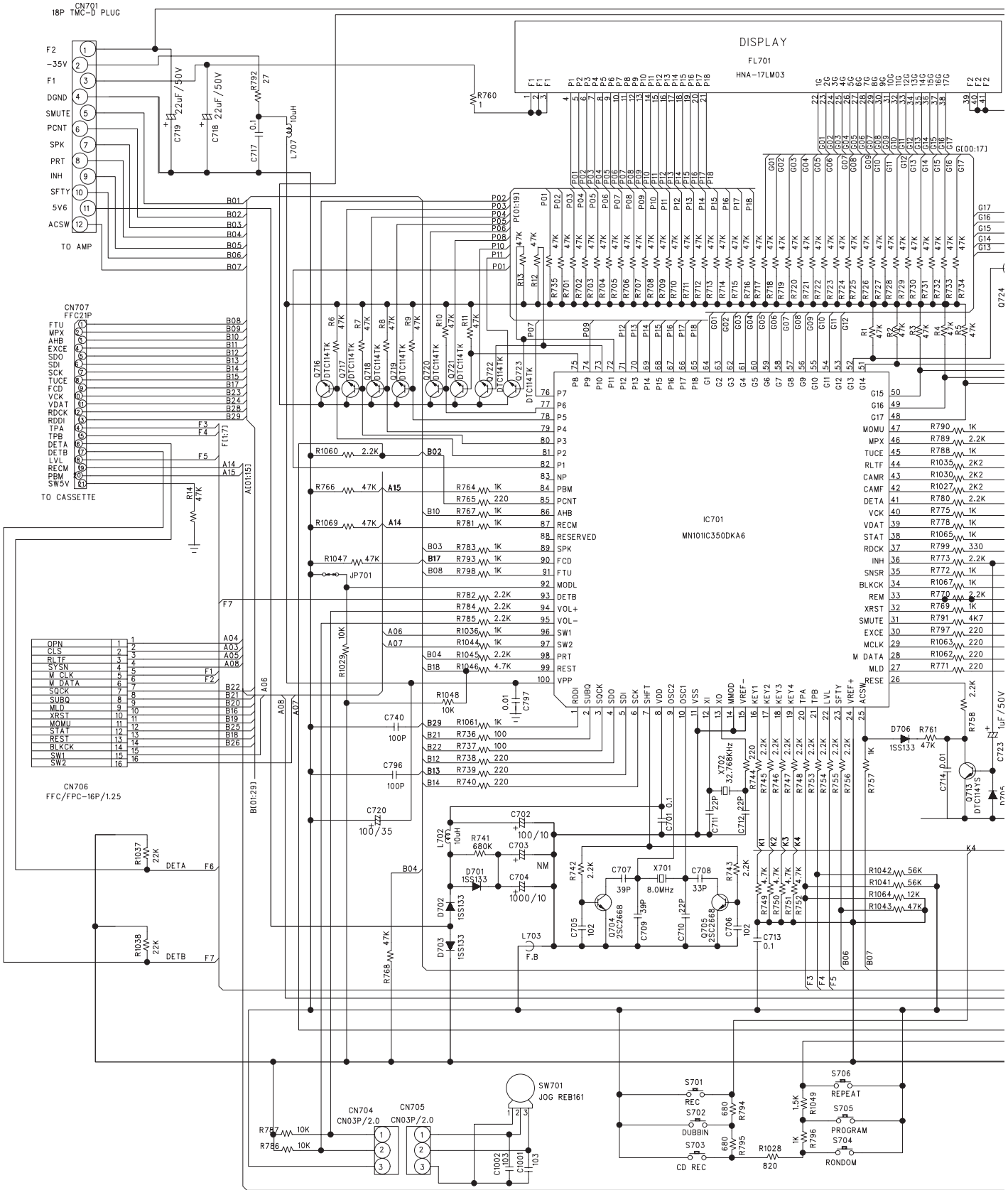

POWER AMPLIFIER BLOCK
INH CIRCUIT
EXCEPT
B/E/EN/EV/EE
STK412-010(EX/UX)
STK412-030(J/C)
IC304
CN951
TO SECONDARY
+VH
GND
−VH
+VL
−VL
D901
D914
RS402M

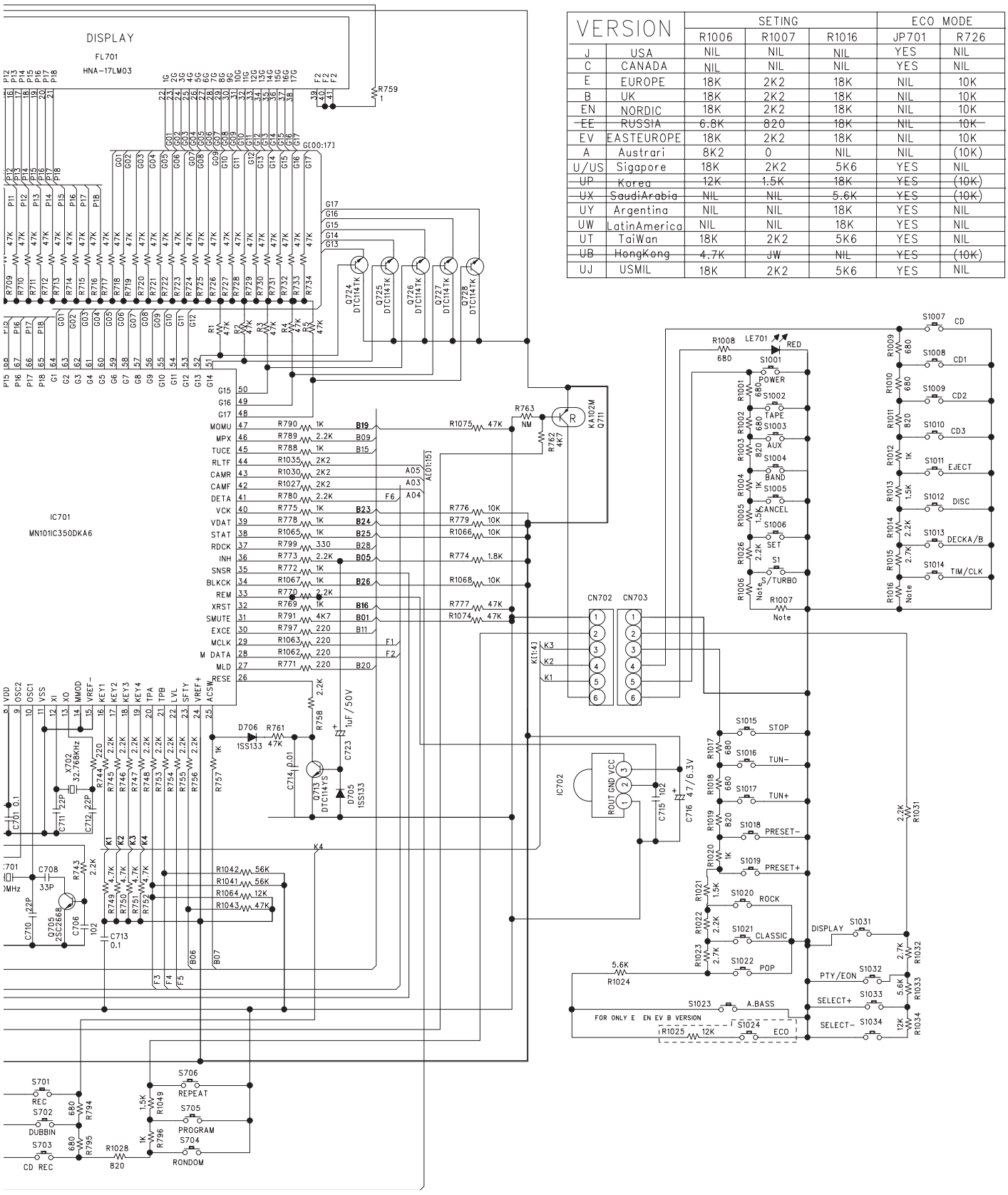
ER BLOCK



⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

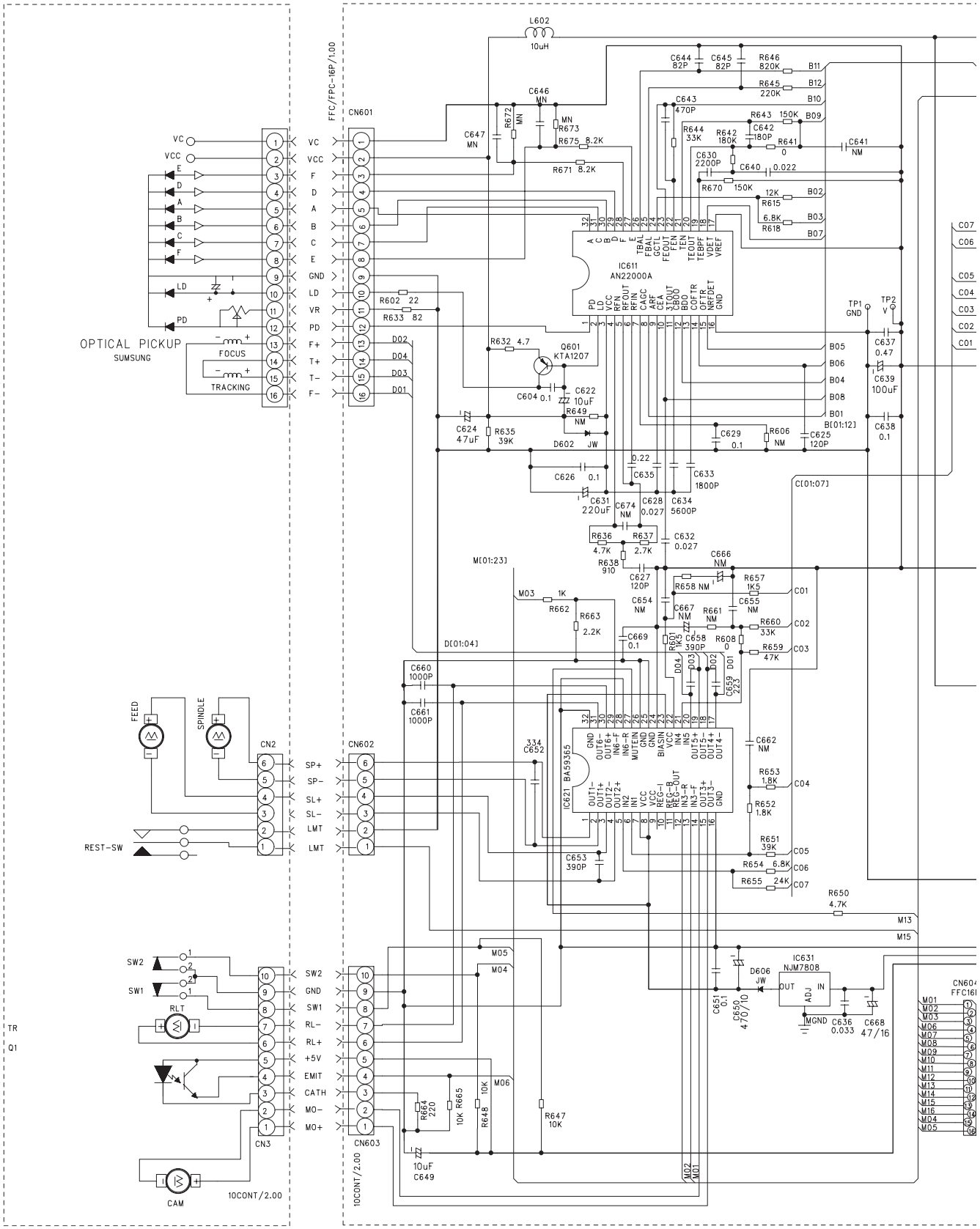
■ FL Display and CPU Control





VERSION		SETING			ECO MODE	
		R1006	R1007	R1016	JP701	R726
J	USA	NIL	NIL	NIL	YES	NIL
C	CANADA	NIL	NIL	NIL	YES	NIL
E	EUROPE	18K	2K2	18K	NIL	10K
B	UK	18K	2K2	18K	NIL	10K
EN	NORDIC	18K	2K2	18K	NIL	10K
~~EE~~	~~RUSSIA~~	~~6.8K~~	~~820~~	~~18K~~	~~NIL~~	~~10K~~
EV	EASTEUROPE	18K	2K2	18K	NIL	10K
A	Austrari	8K2	0	NIL	NIL	(10K)
U/US	Sigapore	18K	2K2	5K6	YES	NIL
~~UP~~	~~Korea~~	~~12K~~	~~1.5K~~	~~18K~~	~~YES~~	~~(10K)~~
~~UX~~	~~SaudiArabia~~	~~NIL~~	~~NIL~~	~~5.6K~~	~~YES~~	~~(10K)~~
UY	Argentina	NIL	NIL	18K	YES	NIL
UW	LatinAmerica	NIL	NIL	18K	YES	NIL
UT	TaiWan	18K	2K2	5K6	YES	NIL
~~UB~~	~~HongKong~~	~~4.7K~~	~~JW~~	~~NIL~~	~~YES~~	~~(10K)~~
UJ	USMIL	18K	2K2	5K6	YES	NIL

■ CD section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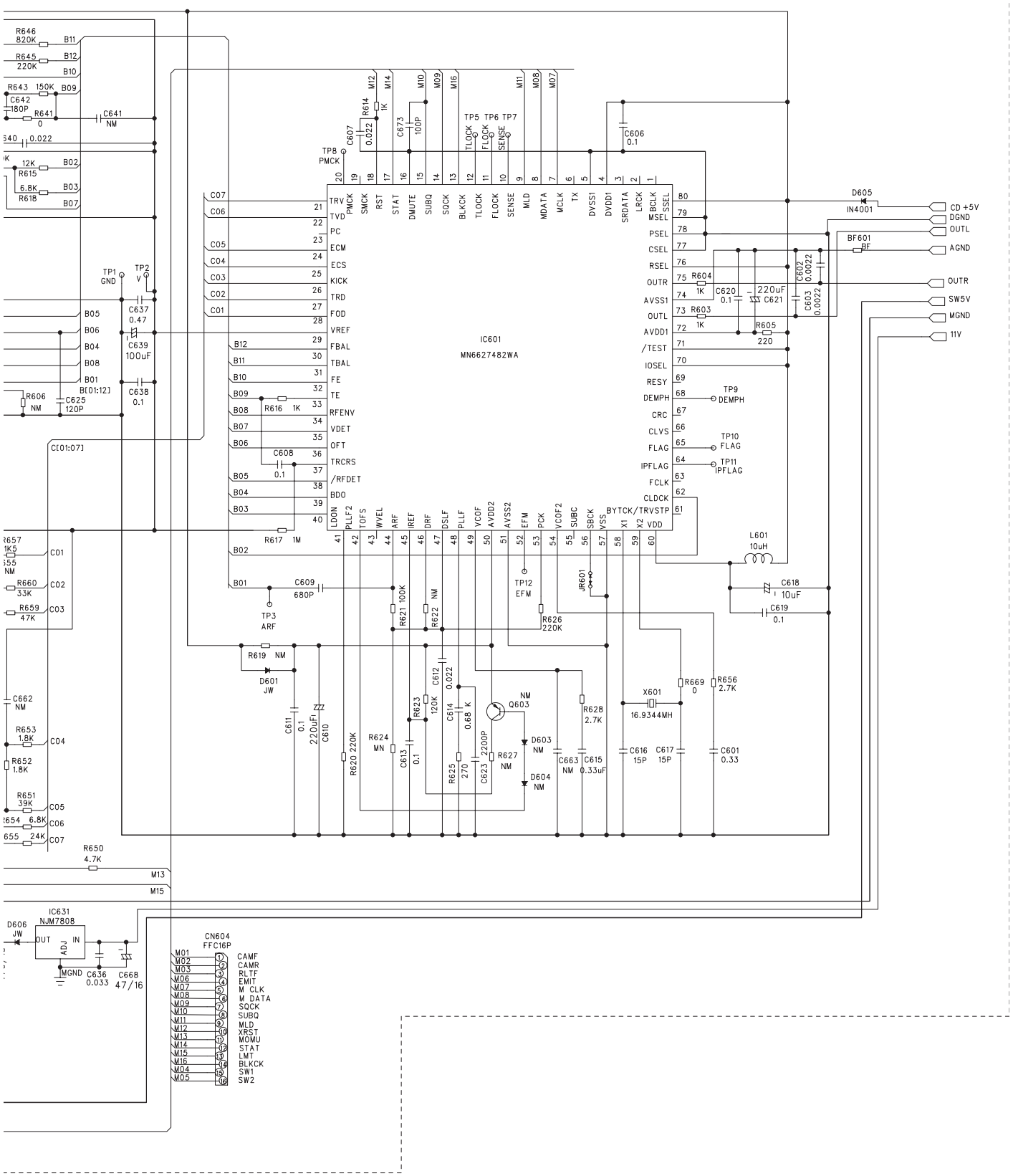
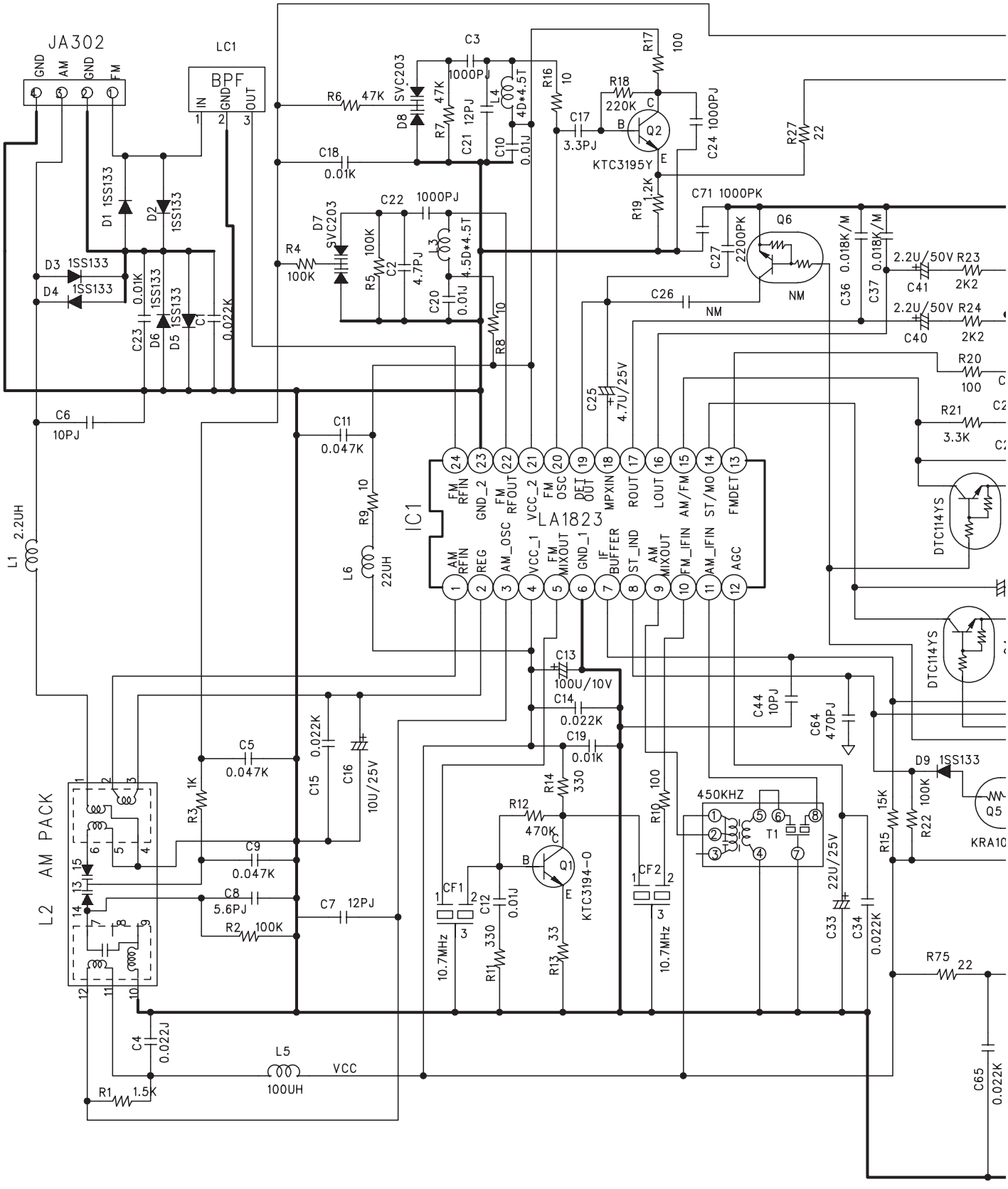
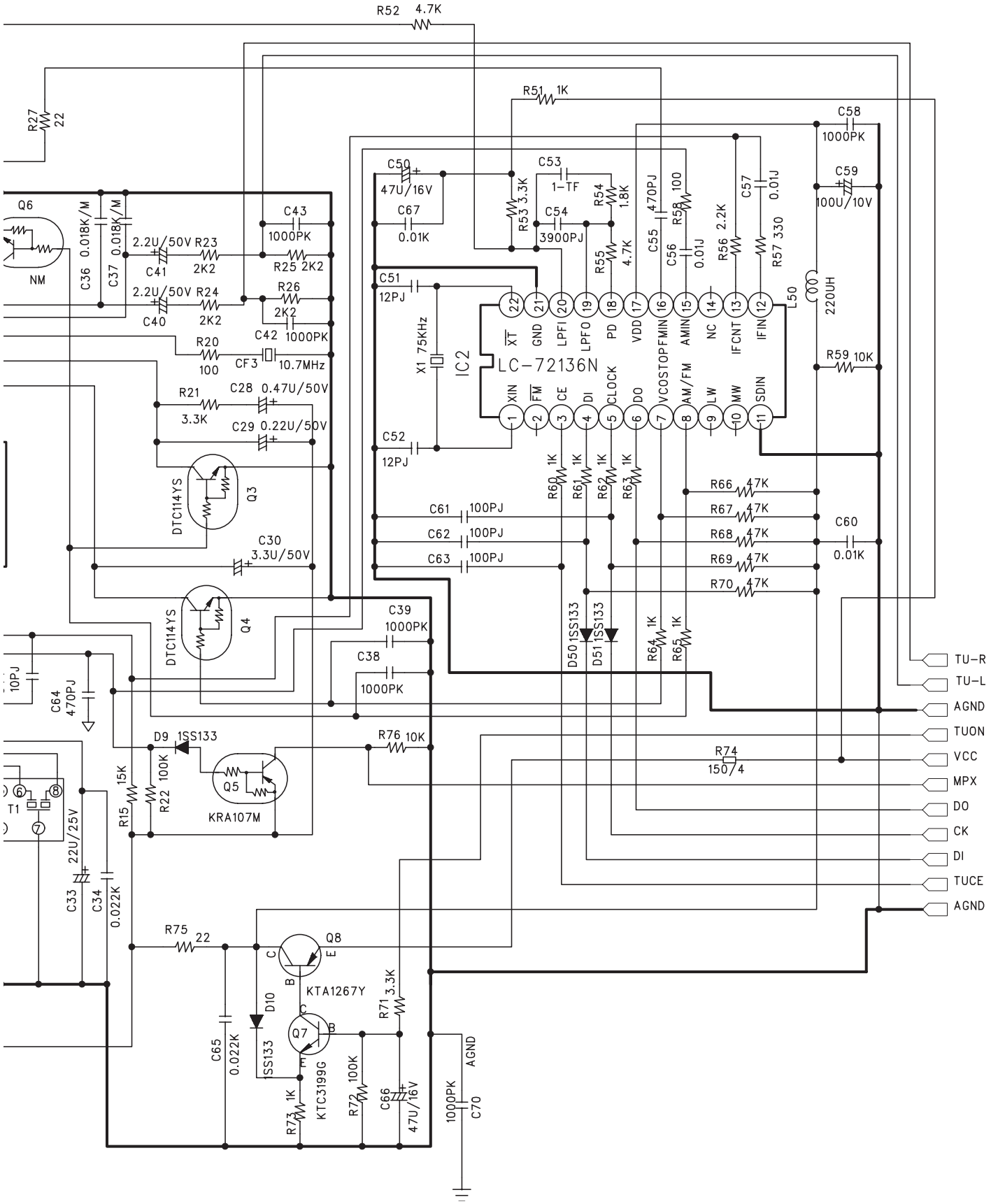
SUMSUNG
FOCUS
TRACKING
FFC/FPC-16P/1.00
CN601
IC611
AN22000A
IC621
BA59365
IC631
NJM7808
Q601
KTA1207
L602
10uH
FEED
SPINDLE
REST-SW
SW2
SW1
RLT
CAM
TR
Q1
CN2
CN3
CN602
CN603
10CONT/2.00


IC601
MN6627482WA
IC631
NJM7808
CN604
FFC16P
D605
IN4001
BF601
L601
10uH
X601
16.9344MH
JR601
CD +5V
DGND
OUTL
AGND
OUTR
SW5V
MGND
11V
TP1
GND
TP2
TP3
ARF
TP8
PMCK
TP5 TP6 TP7
TLOCK FLOCK SENSE
TP9
DEMPH
TP10
FLAG
TP11
IPFLAG
TP12
EFM
C[01:07]
B[01:12]
M01 CAMF
M02 CAMR
M03 RLTF
M06 EMIT
M07 M_CLK
M08 M_DATA
M09 SQCK
M10 SUBQ
M11 MLD
M12 XRST
M13 MOMU
M14 STAT
M15 LMT
M16 BLKCK
M04 SW1
M05 SW2

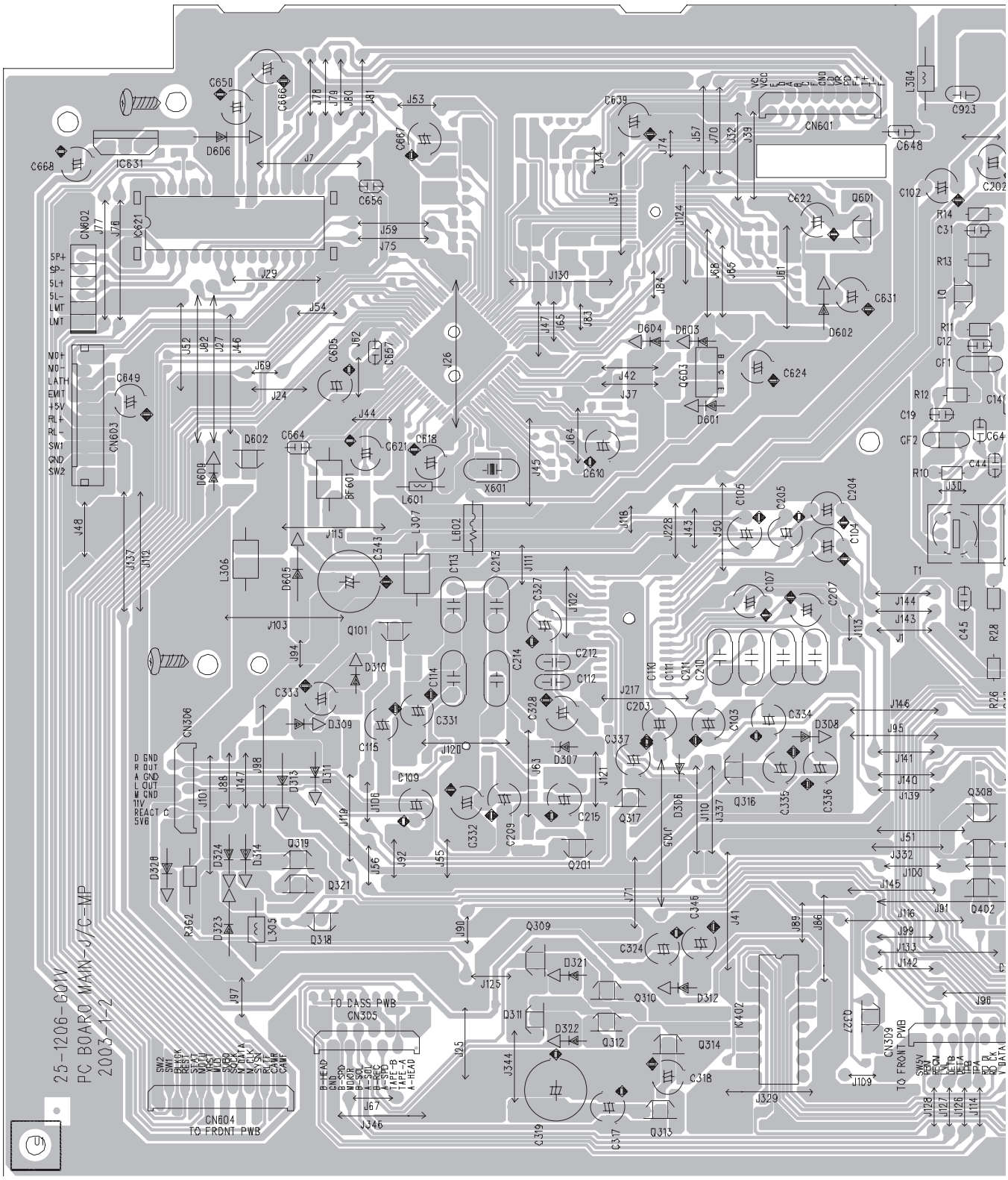
■ Tuner section

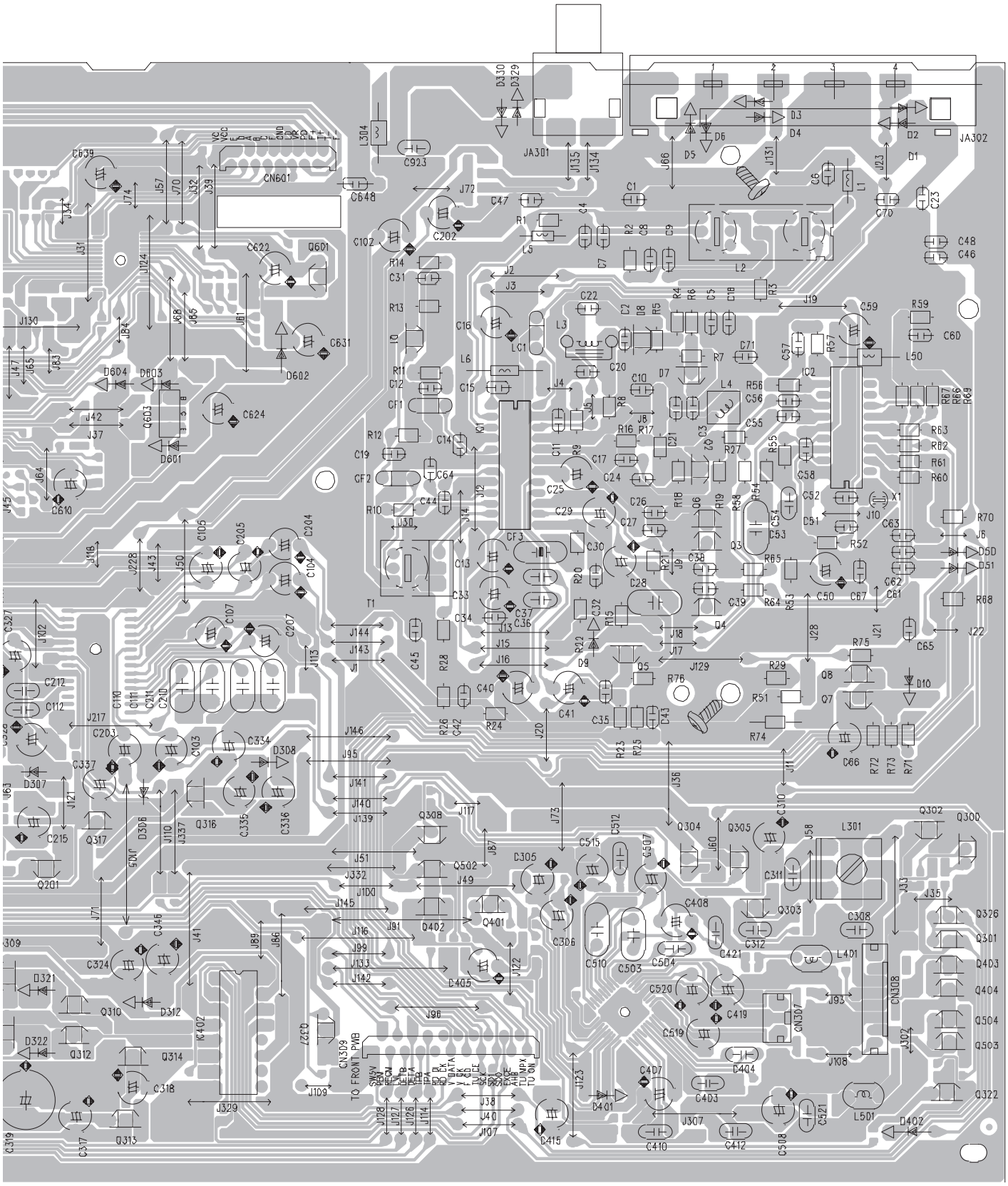



R52 4.7K
R51 1K
R27 22
C58 1000PK
C59 100U/10V
C50 47U/16V
C67 0.01K
C53 1-TF
C54 3900PJ
R53 3.3K
R54 1.8K
R55 4.7K
C55 470PJ
R58 100
C56 0.01J
C57 0.01J
R56 2.2K
R57 330
L50 220UH
R59 10K
C60 0.01K
C51 12PJ
C52 12PJ
X1 75KHz
IC2
LC-72136N
XT GND LPFI LPFO PD VDD FMIN AMIN NC IFCNT IFIN
XIN FM CE DI CLOCK DO VCOSTOP AM/FM LW MW SDIN
Q6
NM
C36 0.018K/M
C37 0.018K/M
C41 2.2U/50V
R23 2K2
C40 2.2U/50V
R24 2K2
C43 1000PK
R25 2K2
R26 2K2
C42 1000PK
R20 100
CF3 10.7MHz
R21 3.3K
C28 0.47U/50V
C29 0.22U/50V
Q3 DTC114YS
C30 3.3U/50V
Q4 DTC114YS
R60 1K
R61 1K
R62 1K
R63 1K
R66 47K
R67 47K
R68 47K
R69 47K
R70 47K
C61 100PJ
C62 100PJ
C63 100PJ
D50 1SS133
D51 1SS133
R64 1K
R65 1K
C39 1000PK
C38 1000PK
C64 470PJ
10PJ
D9 1SS133
R76 10K
R74 150/4
Q5 KRA107M
R15 15K
R22 100K
T1
C33 22U/25V
C34 0.022K
R75 22
Q8 KTA1267Y
D10 1SS133
Q7 KTC3199G
R71 3.3K
R72 100K
R73 1K
C65 0.022K
C66 47U/16V
C70 1000PK
AGND
TU-R
TU-L
AGND
TUON
VCC
MPX
DO
CK
DI
TUCE
AGND

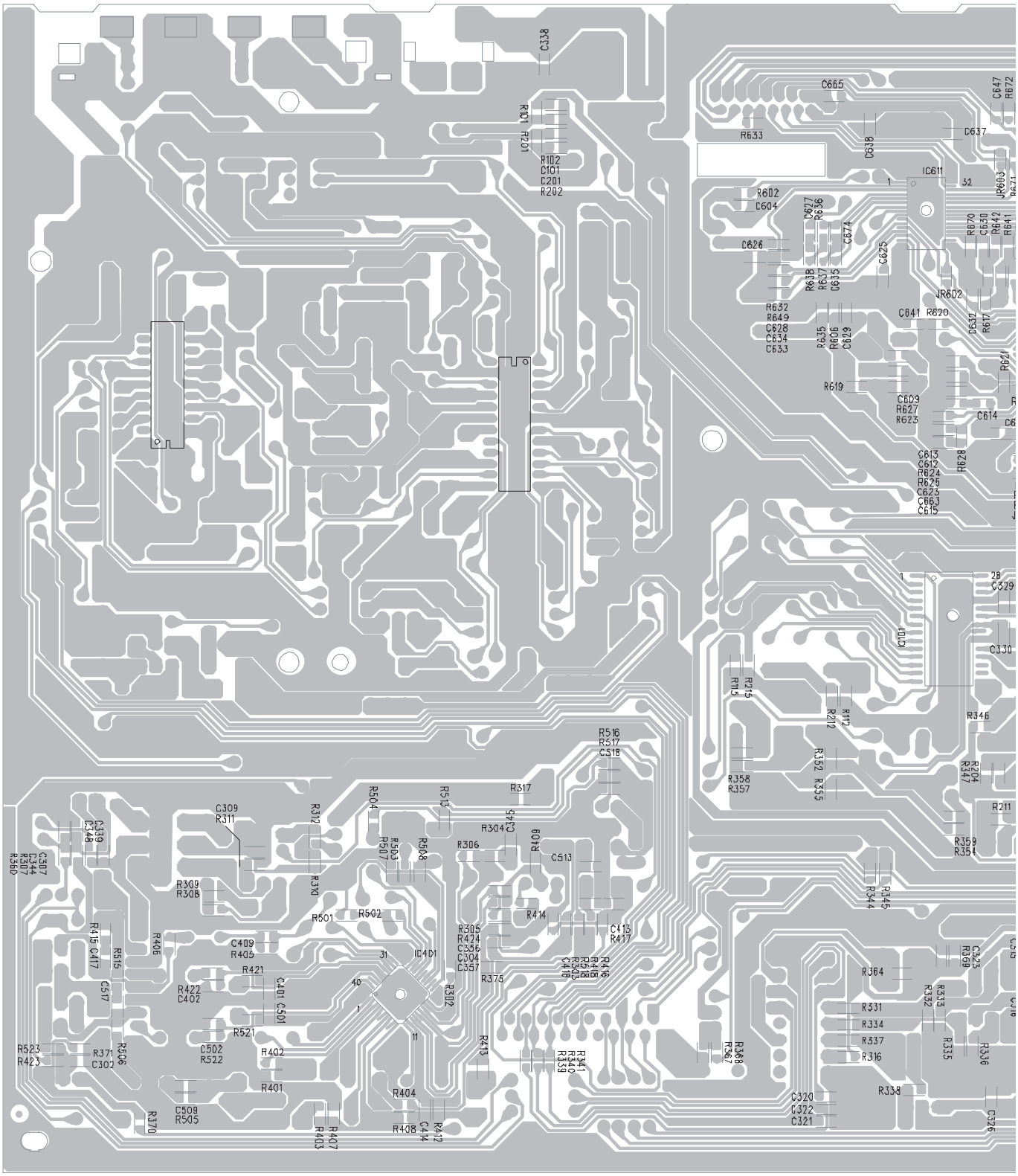
Printed circuit boards

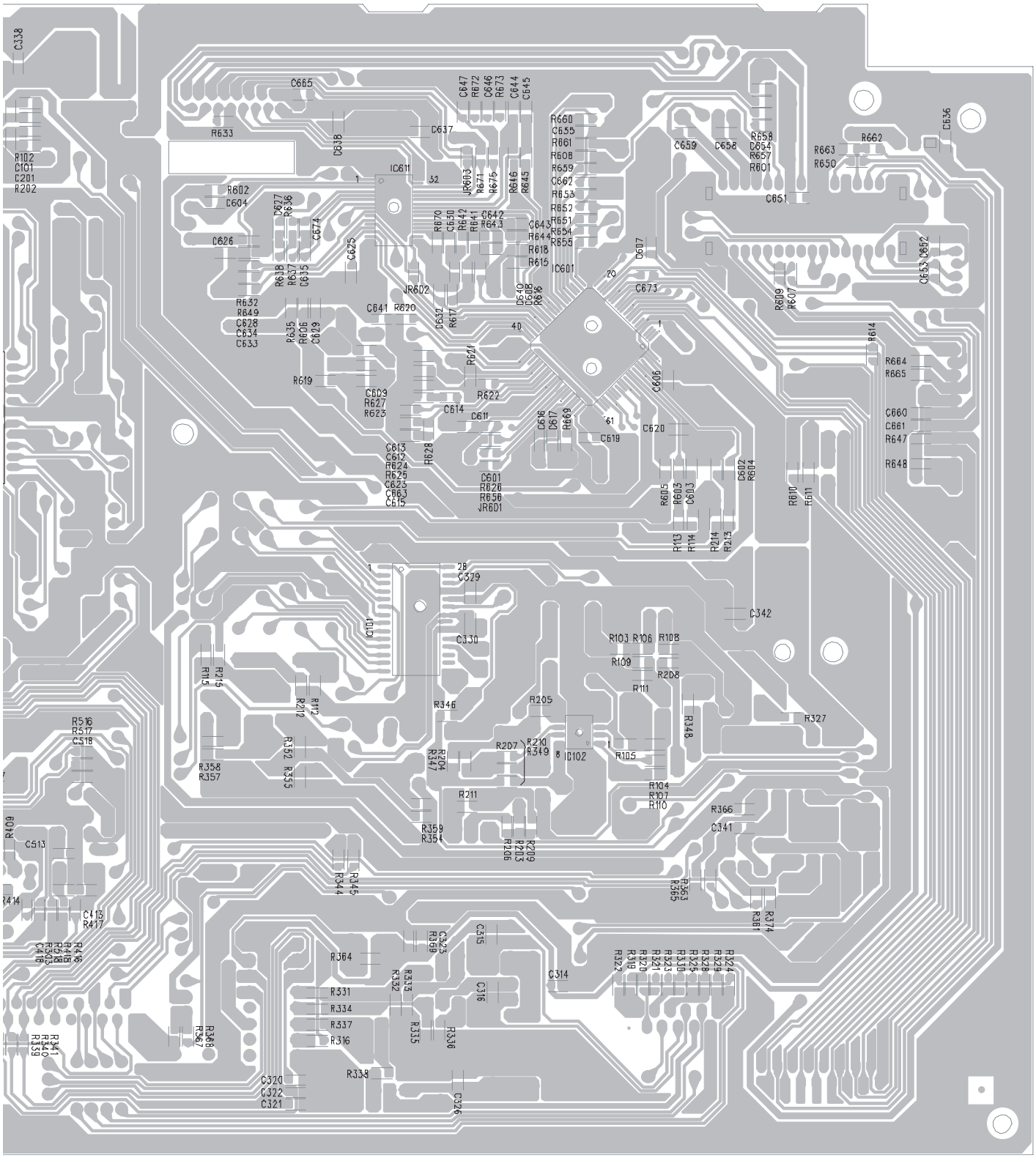
■ Main board (forward side)



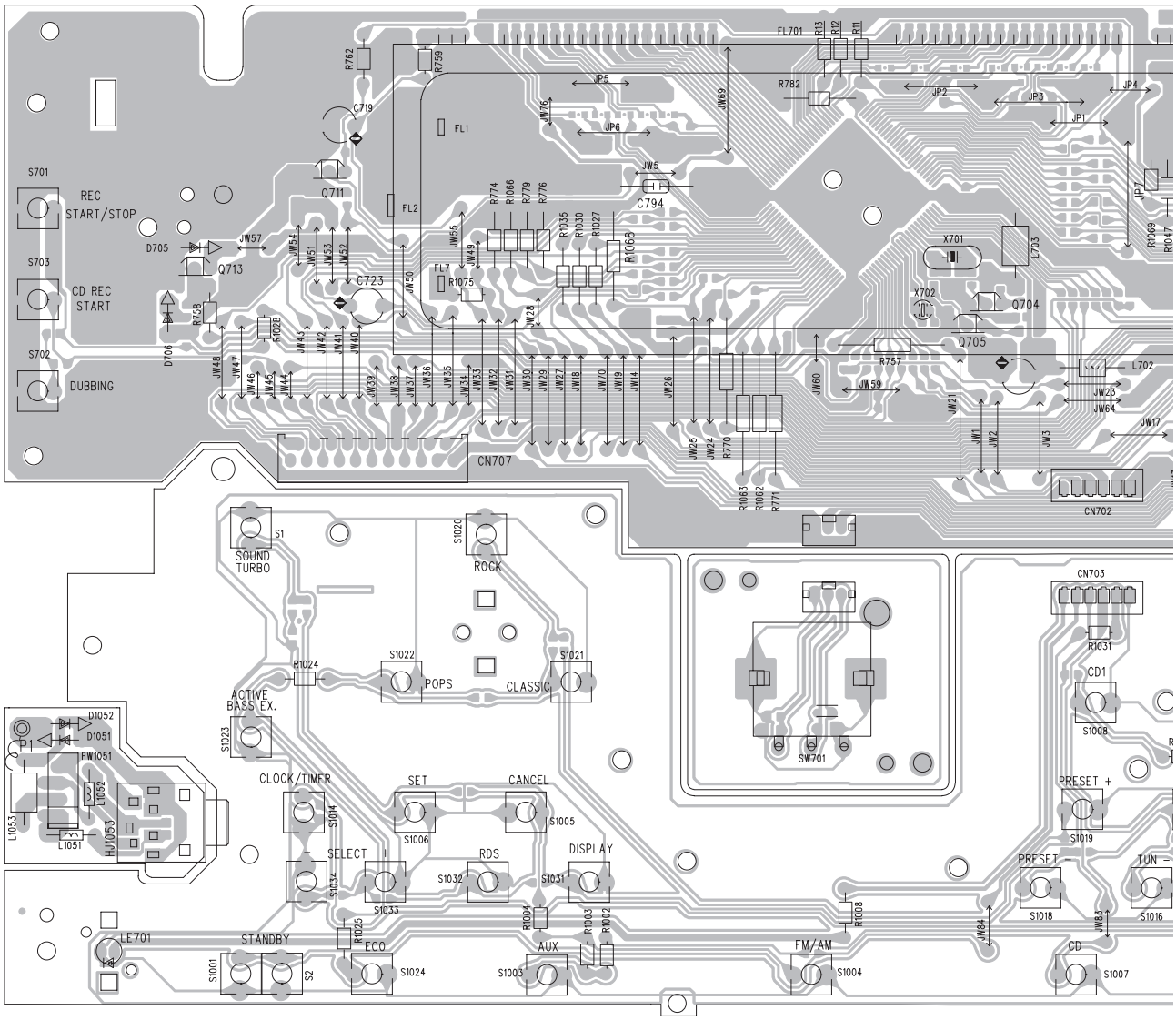


■ Main board reverse side)

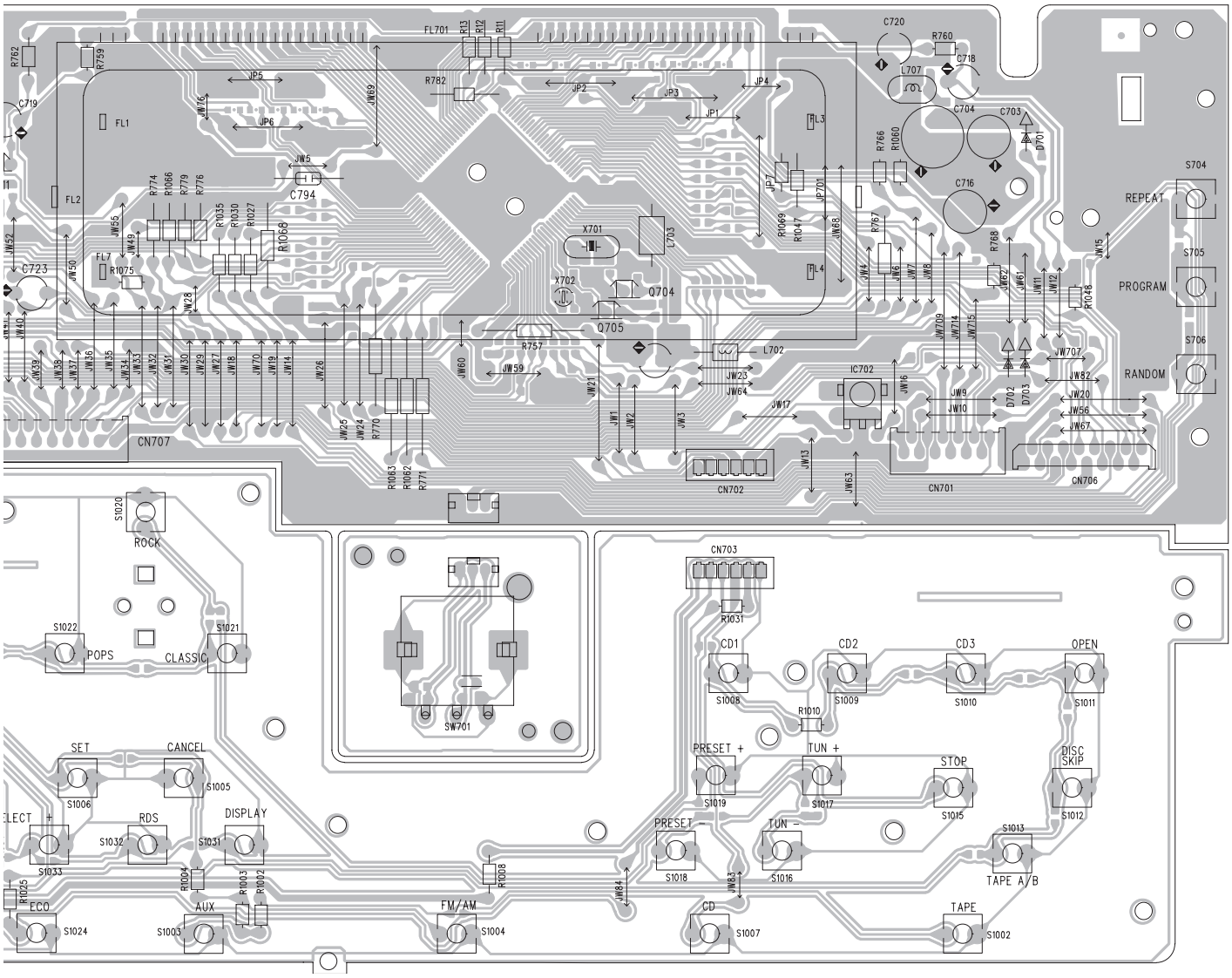




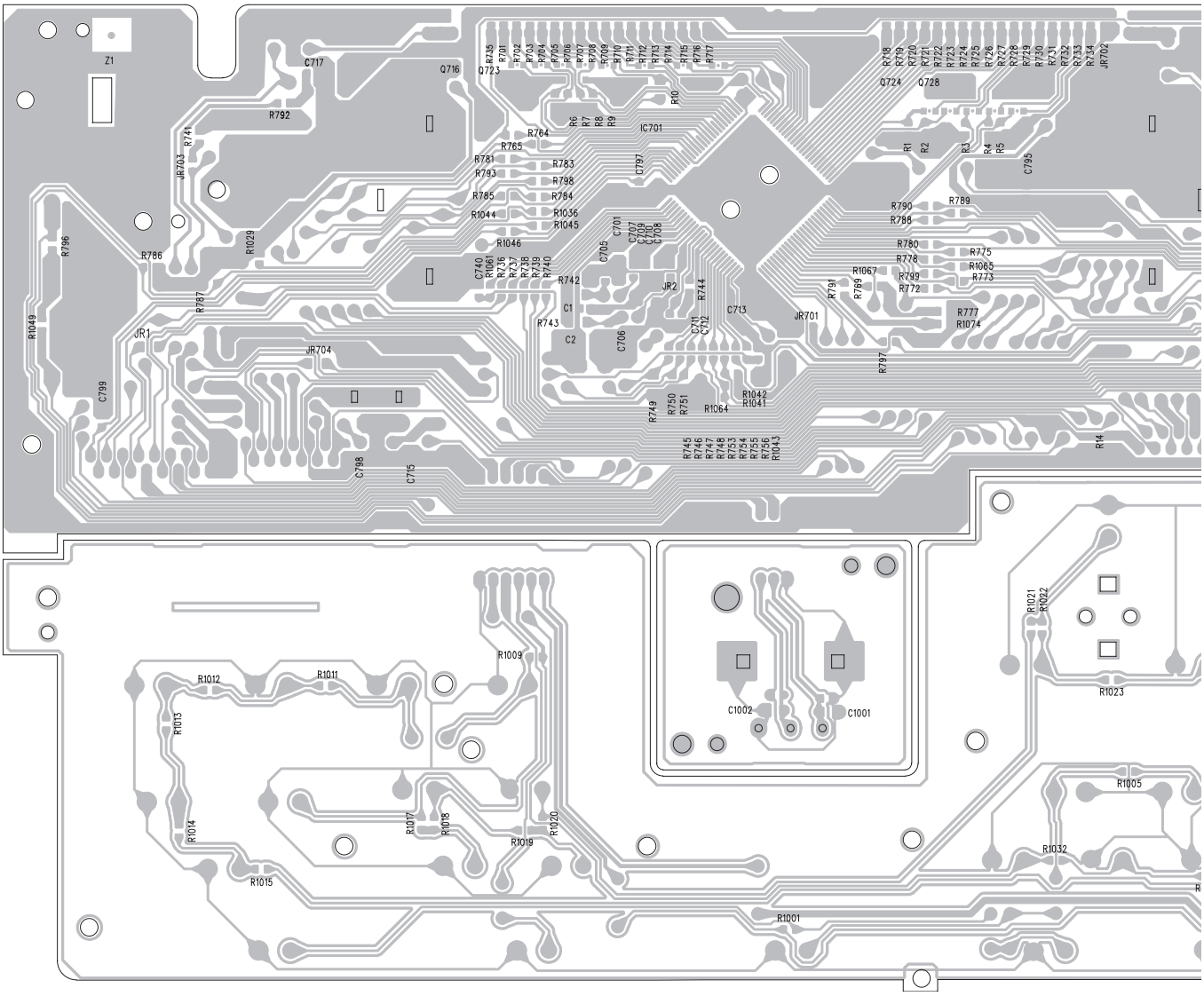
■ FL display and CPU board (forward side)



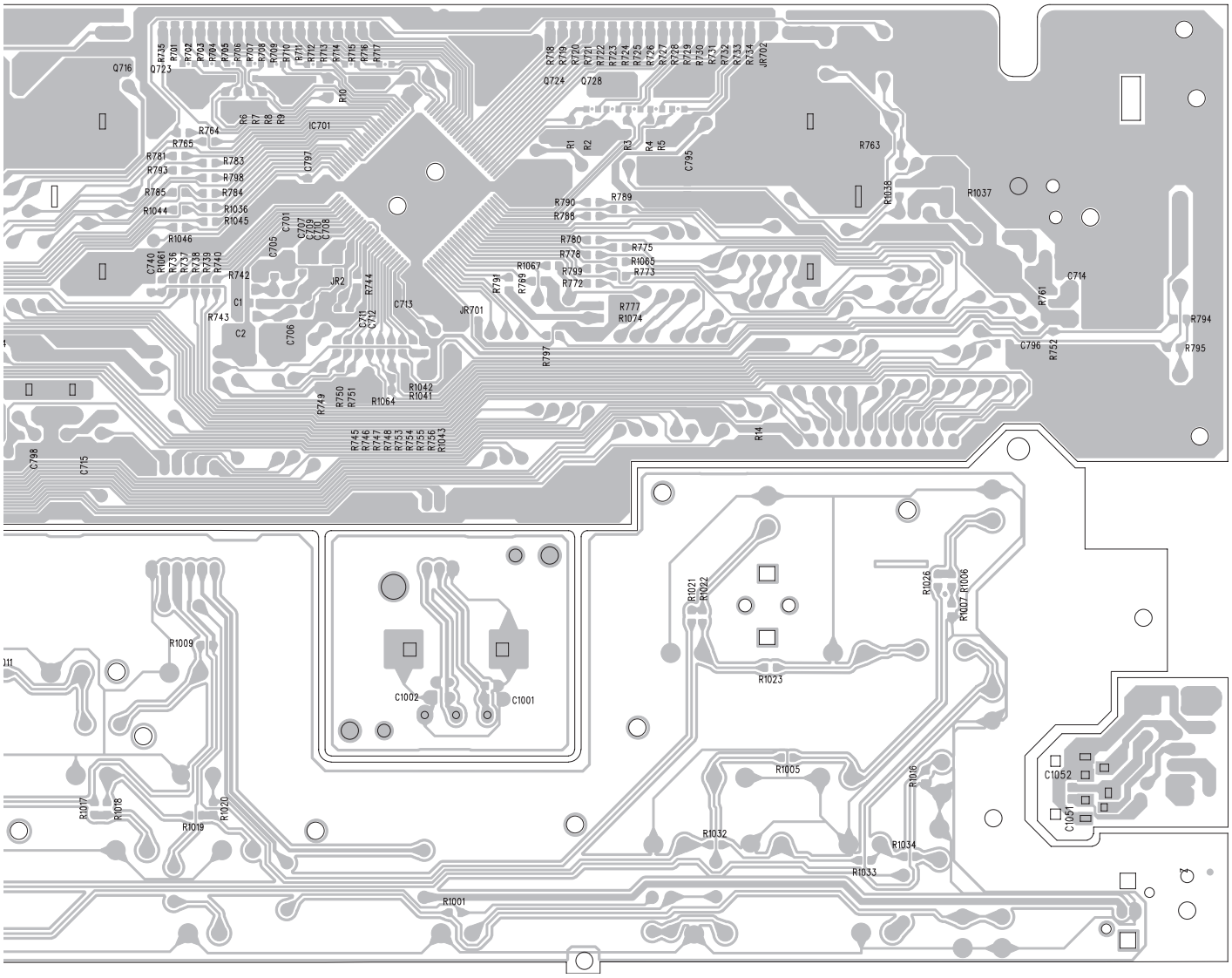
ward side)


REPEAT
PROGRAM
RANDOM
CN707
CN702
CN701
CN706
CN703
IC702
Q704
Q705
X701
X702
L702
L703
FL701
C794
C723
ROCK
POPS
CLASSIC
SET
CANCEL
RDS
DISPLAY
ECO
AUX
FM/AM
CD
TAPE
PRESET +
PRESET −
TUN +
TUN −
STOP
DISC SKIP
TAPE A/B
CD1
CD2
CD3
OPEN
SW701

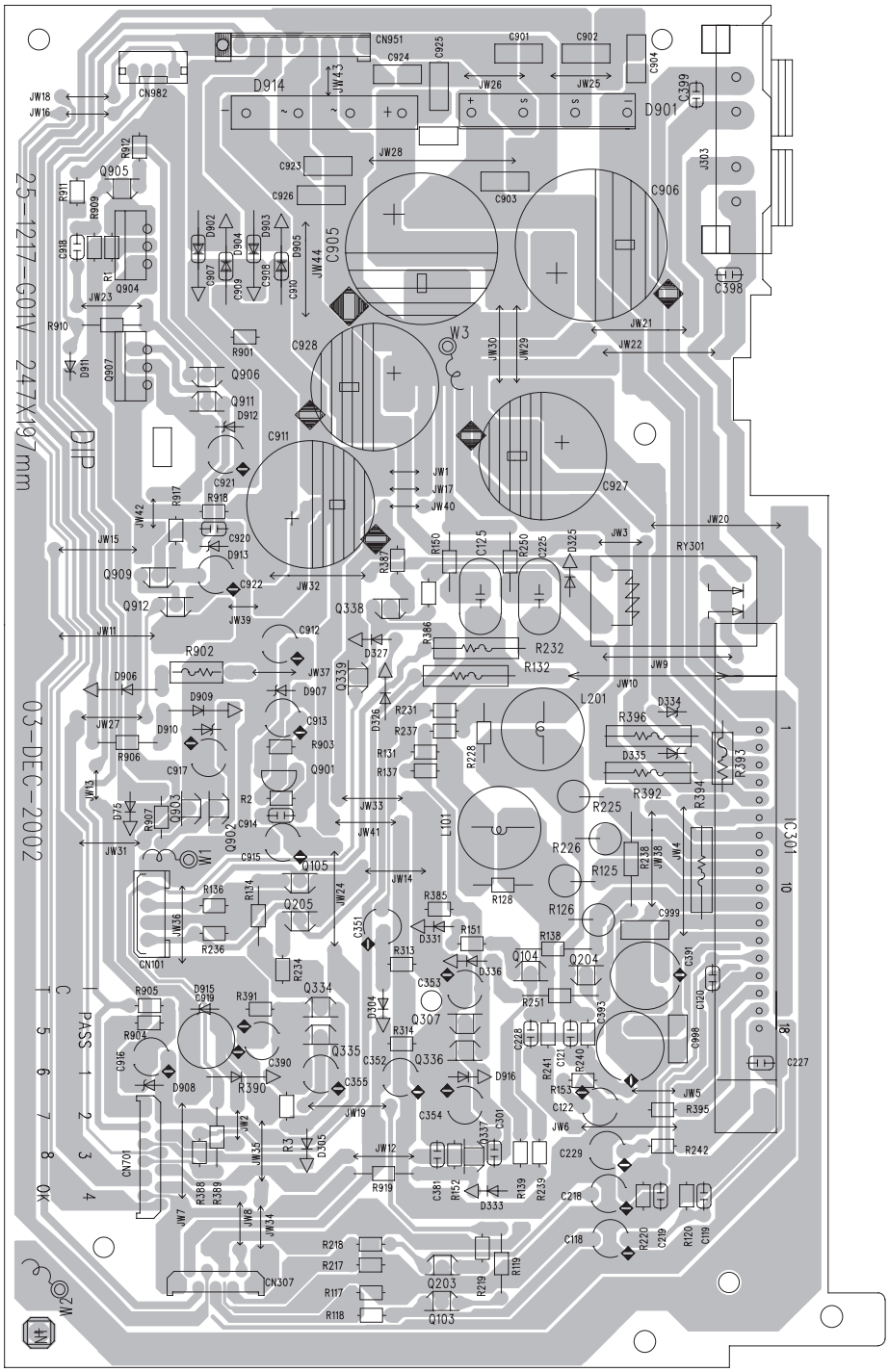
■ FL display and CPU board (reverse side)



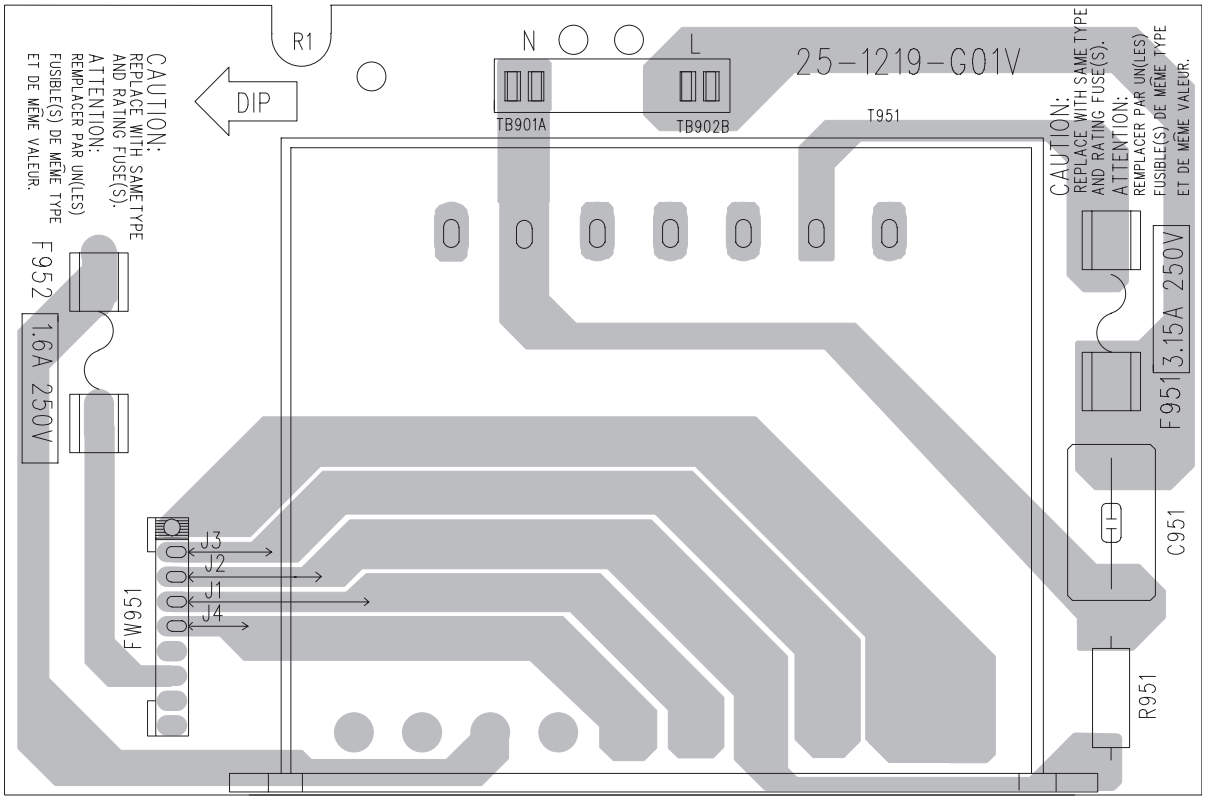
l (reverse side)



■ Power amp. board



■ Power trans board



JVC

VICTOR COMPANY OF JAPAN, LIMITED

AV & MULTIMEDIA COMPANY AUDIO/VIDEO SYSTEMS CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MB157SCH)

Printed in Japan
WPC

PARTS LIST

[MX-KB30]

* All printed circuit boards and its assemblies are not available as service parts.

Area suffix

J ---------- U.S.A.
C ---------- Canada

- Contents -

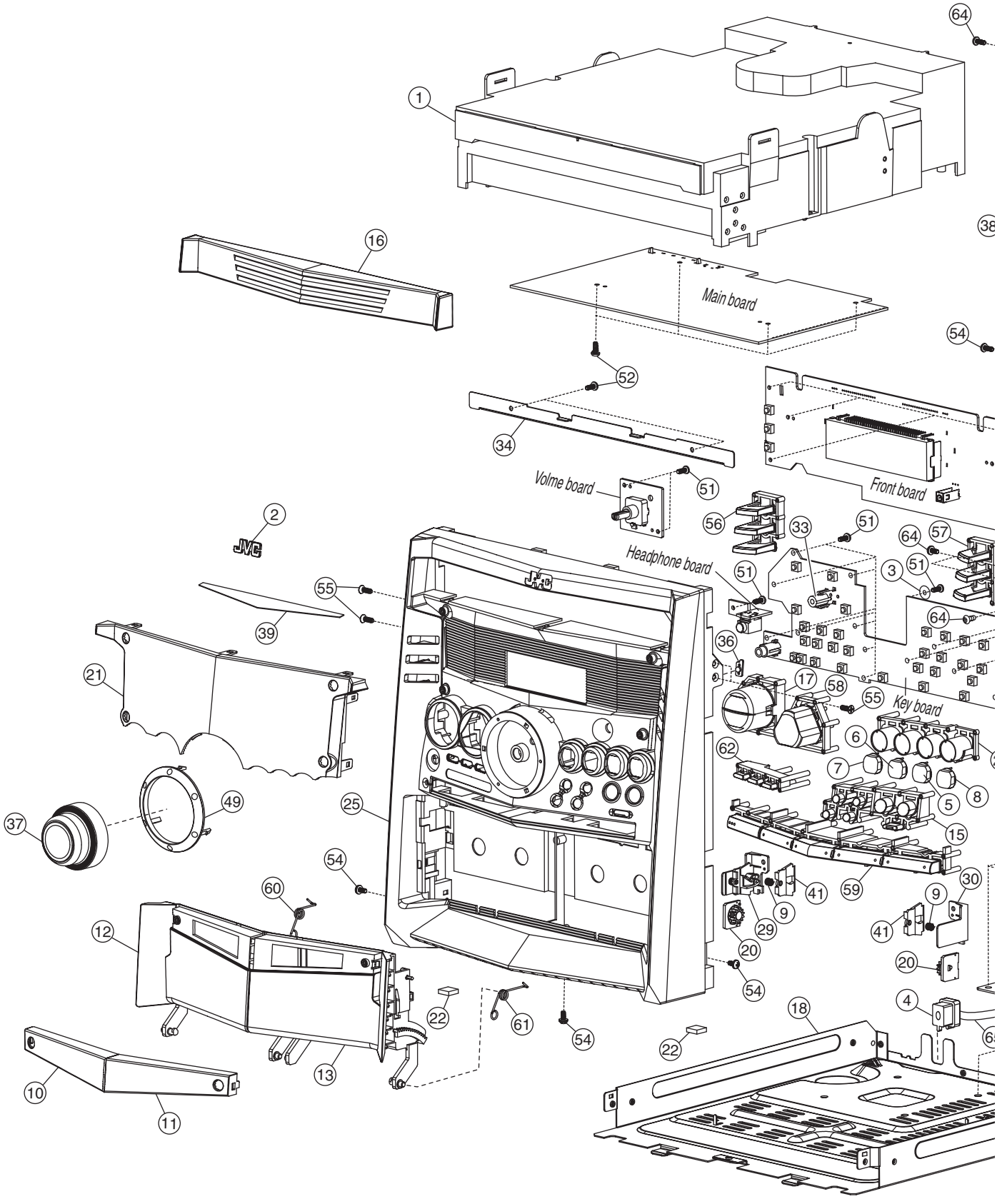
Exploded view of general assembly and parts list (Block No.M1) ---------- 3- 2
CD changer mechanism assembly and parts list (Block No.MA) ---------- 3- 5
Cassette mechanism assembly and parts list (Block No.MP) ---------- 3- 7
Electrical parts list (Block No.01~05) ---------- 3- 8
Packing materials and accessories parts list (Block No.M3) ---------- 3-12

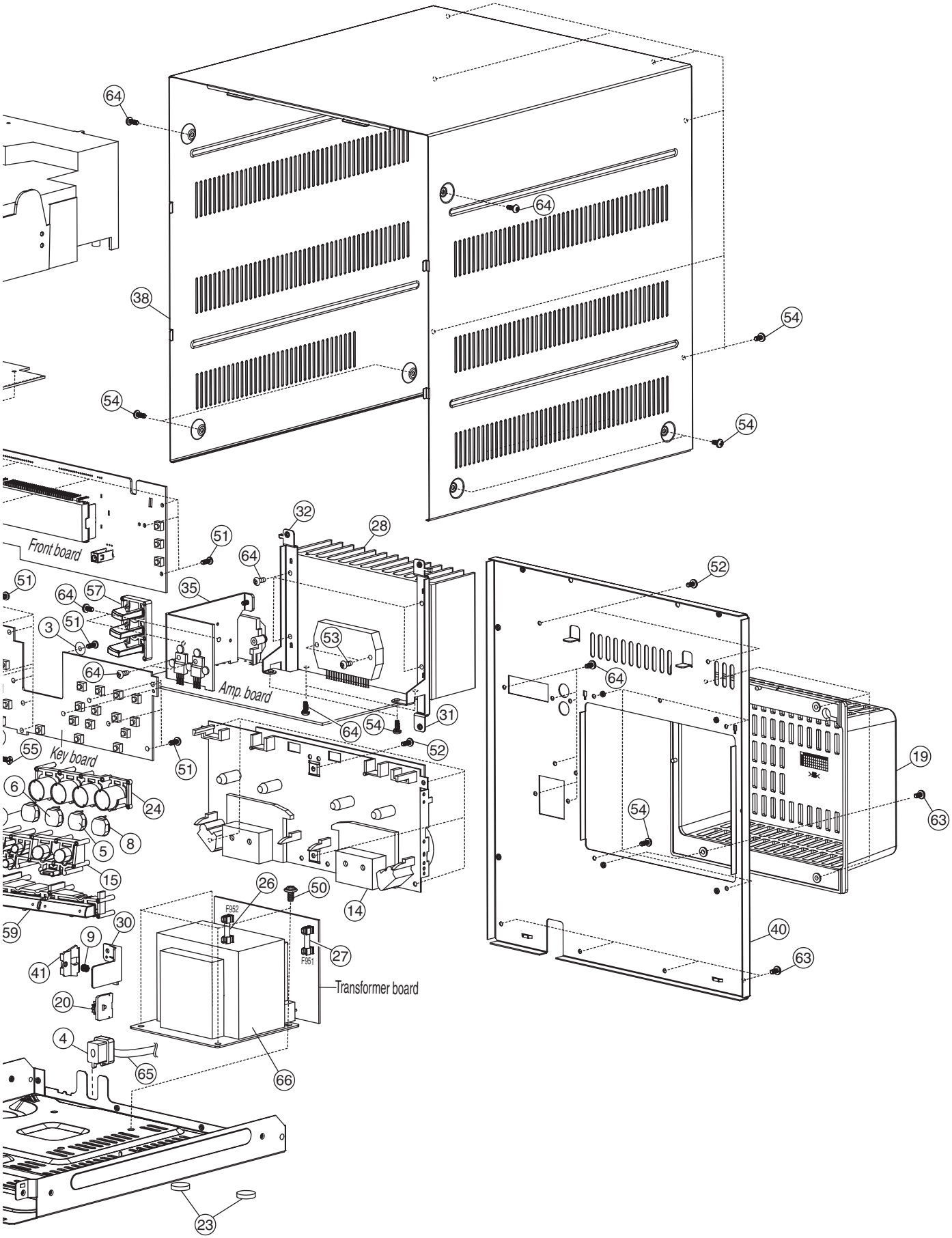
- Note-

Parts number of normal capacitors and normal resistors doesn't listed on the parts list

Exploded view of general assmbly and parts list

Block No. M 1 M M




64
38
54
Front board
51
32
28
35
57
3
53
Amp. board
31
55
Key board
52
6
24
8
5
15
59
26
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14
F952
F951
27
30
9
41
20
Transformer board
4
65
66
23
40
63
19

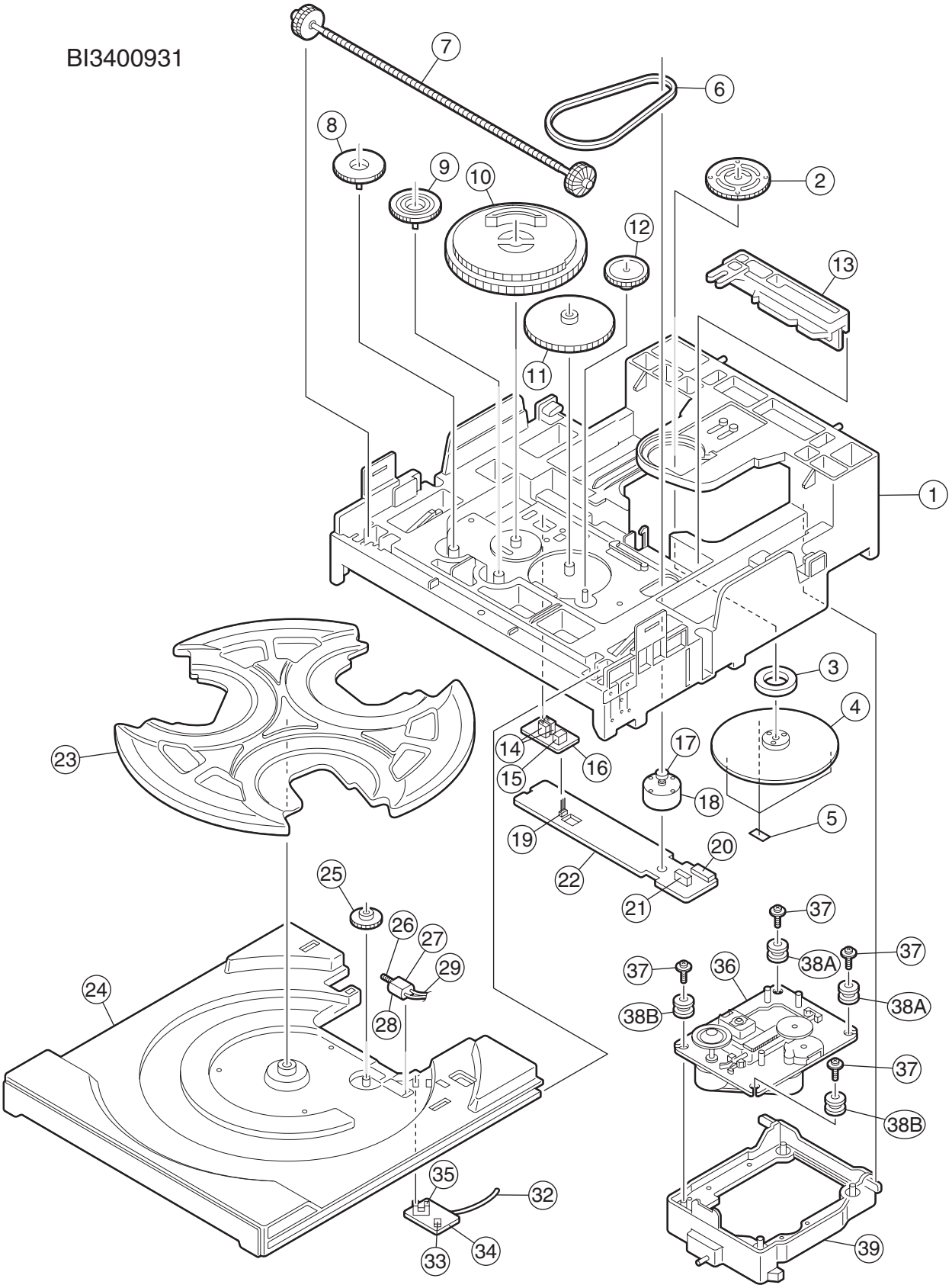
General assembly

Block No. [M][1][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	----------	CD CHANGER MECH		
2	BI109835010201	BADGE JVC		
3	BI300856010101	WASHER		
⚠ 4	BI301789010101	BUSHING	5RF-5B	
5	BI1074751301U1	CAP CD3		
6	BI1074751201U1	CAP CD2		
7	BI1074751101U1	CAP CD1		
8	BI1074751401U1	CAP OPEN CLOSE		
9	BI201789010102	LOCK SPRING	CASSETTE(x2)	
10	BI107468010101	CASS DOOR WIN L		
11	BI107467010101	CASS DOOR WIN R		
12	BI107466010101	CASS HOLDER L		
13	BI107465010101	CASS HOLDER R		
14	----------	CASSETTE MECHA	CMAT6Z219A	
15	BI107477010101	CD EJECT BUTTON		
16	BI107463010201	CD FITTING		
17	BI107471010101	CD SEL BUTTON A		
18	BI202547010201	CHAS MAIN		
19	BI107483010101	HEATSINK COVER		
20	BI301388010101	DAMPING GEAR	(x2)	
21	BI1074640901U1	DISPLAY WINDOW		
22	BI103362020102	EVA FOOT	(x2)	
23	BI301779010101	EVA FOOT C	(x2)	
24	BI107473010101	FRAME CD SELECT		
25	BI107462910201	FRONT PANEL		
⚠ 26	BI402991	FUSE	F952 1.6A 250V	
⚠ 27	BI403011	FUSE	F951 3.15A 250V	
28	BI202556010102	HEAT SINK		
29	BI104143010102	HOLDER LOCK L		
30	BI104143010202	HOLDER LOCK R		
31	BI202560010101	HOLDER R		
32	BI202553010101	HOLDER L		
33	BI107480010101	HOLDER	SOUND MODE	
34	BI202592010101	HOLDER BRACKET		
35	BI202555010101	HEAT SINK AMP		
36	BI107485010101	INDICATOR	STANDBY	
37	BI109819030201	KNOB VOLUME TAB		
38	BI202548010101	METAL COVER		
39	BI301922010101	MIRROR SHEET		
40	BI2025500501U1	REAR PANEL		
41	BI104142010102	PLATE LOCK 1	(x2)	
49	BI107482010101	RING VOLUME		
50	BIPMW001101S3	SCREW	4.0XL6 METAL(x4)	
51	BIBT000418	SCREW	2.6XL8 PLASTIC(x23)	
52	BIRT000617B3	SCREW	3.0XL10 PLASTIC(x14)	
53	BIBT0006091	SCREW	3.0XL14 PLASTIC(x2)	
54	BIRM000603S3	SCREW	3.0XL6 METAL(x19)	
55	BIKT000627	SCREW	(x4)	
56	BI107470010101	SELECT BUTTON L		
57	BI107469010101	SELECT BUTTON R		
58	BI107472010201	BUTTON	SOUND MODE	
59	BI107478010101	SOURCE BUTTON A		
60	BI202566010101	SPRING L		
61	BI202565010101	SPRING R		
62	BI107476010101	SUB BUTTON SET		
63	BIRM000604S3	SCREW	RH/TS 3XL8(x8)	
64	BIRT000611B3	SCREW	RH/TS 3XL8(x18)	
⚠ 65	BI1400864	POWER CORD	UL/CSA	
⚠ 66	BI211041004001W	TRANSFORMER	T951 UL/CSA	

CD changer mechanism assembly and parts list

Block No. M A M M



CD changer mechanism

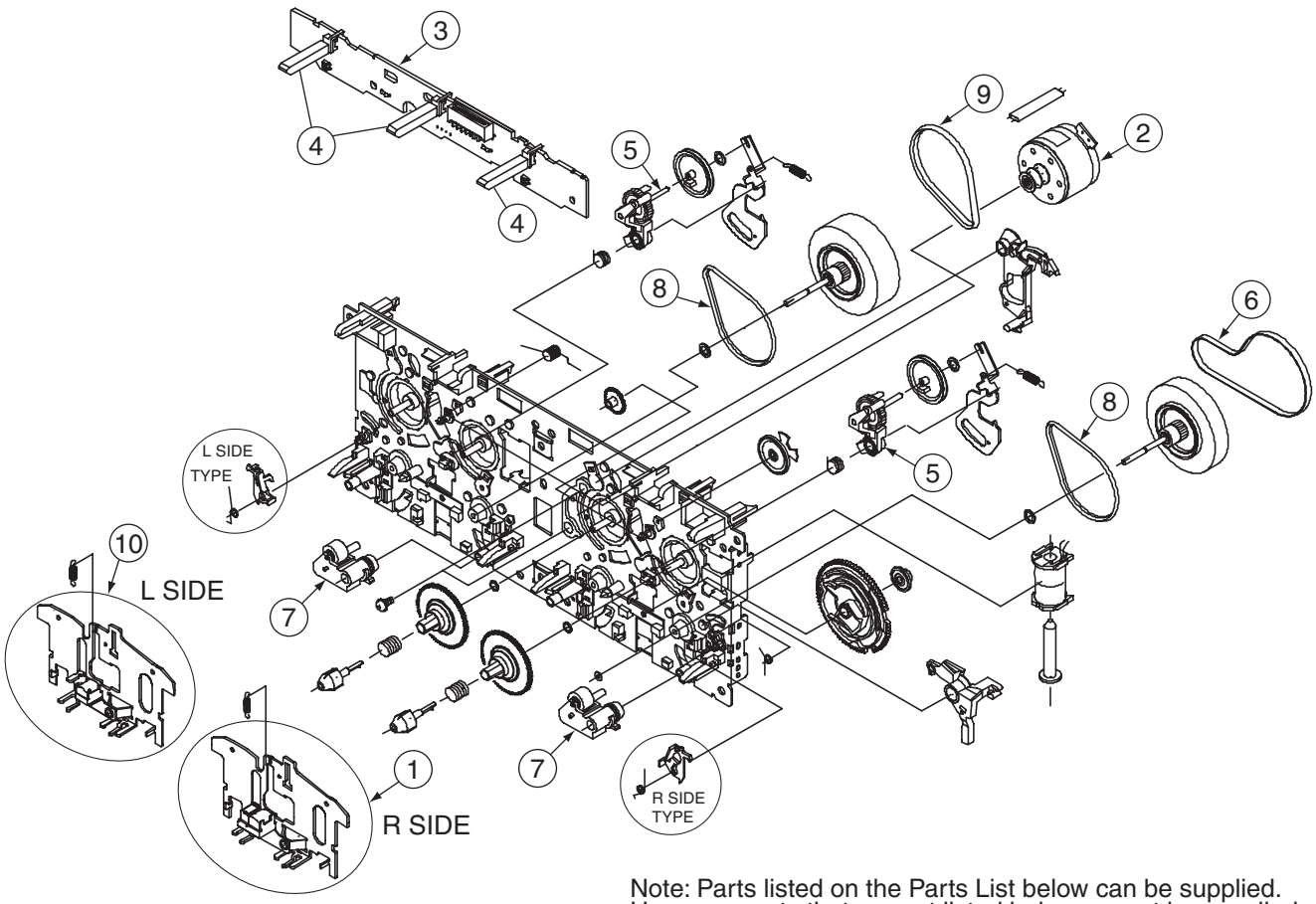
Block No. [M][A][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	BIAJ7200601J	BASE-MAIN	1X1	
2	BIAJ6100601P	BRKT-CHUCK		
3	BI3302000158	MAGNET-FERRITE		
4	BIAJ7200601L	TABLE-CHUCK	1X4	
5	BIAJ6300601A	SHEET-CHUCK	(x3)	
6	BIAJ7300601B	BELT-LOAD		
7	BIAJ6600601N	GEAR-SYNCRO	1X2	
8	BIAJ6600601L	GEAR-CONVERT	1X4	
9	BIAJ6600601M	GEAR-TRAY	1X4	
10	BIAJ6600601R	GEAR-CAM	1X2	
11	BIAJ6600601K	GEAR-LOAD	1X4	
12	BIAJ6600601J	GEAR-PULLEY	1X4	
13	BIAJ7200601N	SLIDER-CAM	1X4	
14	BI3405000101	SWITCH-MICRO	(x2)	
15	BI3711003379	CONNECTOR-HEADE		
16	BIAJ4100601K	PCB-SW		
17	BIAJ6100601K	PULLEY-MOTOR	1X4	
18	BIAJ3100601F	MOTOR-DC		
19	BI3710001248	CONNECTOR-SOCE		
20	BI3711003692	CONNECTOR-HEADE		
21	BI3708001163	CONNECTOR-FPC		
22	BIAJ4100601L	PCB-MECHA		
23	BIAJ7200601P	TRAY-ROULETTE	1X2	
24	BIAJ7200601Q	TRAY-DISC	1X2	
25	BIAJ6600601Q	GEAR-ROULETTE	1X4	
26	BIAJ6600601P	GEAR-WORM	1X2	
27	BIAJ3100601K	MOTOR-LOADING		
28	BIAJ6300601B	SHEET-MOTOR		
29	BIAJ3900601A	WIRE-ROULETTE		
32	BIAJ3900601B	WIRE-TRAY		
33	BI3711000003	CONNECTOR-HEADE		
34	BIAJ4100601J	PCB-SENSOR		
35	BIAJ3200601A	SENSOR-ROULETTE		
36	BIAJ9050605F	CMS-B31NG6U		
37	BIAJ6000601F	SCREW	(x4)	
38A	BIAJ7300601F	RUBBER-B31Y	(x2)	
38B	BIAJ7300601D	RUBBER-B31	(x2)	
39	BIAJ7200602F	LEVER-LIFTER	1X2	

Cassette mechanism assembly and parts list

Block No. M P M M

CMAT6Z219A



Note: Parts listed on the Parts List below can be supplied. However, parts that are not listed below cannot be supplied individually but only by purchasing the whole Cassette Mechanism Assembly Unit. (When ordering, use the Parts No. CMAT6Z219A for Cassette Mechanism Assembly Unit.)

Cassette mechanism

Block No. [M][P][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	BIF513-858	PLATE HD BLK		
2	BIF525-346	MTR MAIN BLK		
3	BIF567-843	PCB CONTROL BLK		
4	BIUE20P-12	LEAF SWITCH	(x3)	
5	BIF522-063	CLUTCH ASY BLK	(x2)	
6	BIFF19N-31	MAIN BELT		
7	BIF514-35	ROLLIER PINCH B	(x2)	
8	BIFF19S-31	F/R BELT MO	(x2)	
9	BIFF19N-22	MAIN BELT		
10	BIF513-855	PLATE HD BLK		

Electrical parts list

Main board

Block No. [0][1][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC1	LA1823	IC	BI113251	
IC2	LC72136N	IC	BI113271	
IC101	TDA7440D	IC	BI113231	
IC102	BA15218F	IC	BI113241	
IC401	HA12237	IC	BI115011	
IC402	M74HC4094B	IC	BI114371	
IC601	MN6627482WA	IC	BI114621	
IC611	AN22000A	IC	BI113161	
IC621	BA5936S	IC	BI113141	
IC631	NJM7808FA	IC	BI110061	
Q1	KTC3194	TRANSISTOR	BI2KTC3194P0008	
Q2	KTC3195	TRANSISTOR	BI2KTC3195YP000	
Q3	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q4	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q5	KRA107	TRANSISTOR	BI2KRA107MP0008	
Q7	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q8	KTA1267GR	TRANSISTOR	BI2KTA1267GP000	
Q101	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q201	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q302	KTC3200GR	TRANSISTOR	BI2KTC3200P0008	
Q303	KTC3203Y	TRANSISTOR	BI2KTC3203YP000	
Q304	KTA1267GR	TRANSISTOR	BI2KTA1267GP000	
Q305	DTC144ES	TRANSISTOR	BI2DTC144ESP002	
Q308	DTC144ES	TRANSISTOR	BI2DTC144ESP002	
Q309	KTA1273	TRANSISTOR	BI2KTA1273P0008	
Q310	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q311	KTA1273	TRANSISTOR	BI2KTA1273P0008	
Q312	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q313	KTA1273	TRANSISTOR	BI2KTA1273P0008	
Q314	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q316	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q317	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q318	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q319	KA1270	TRANSISTOR	BI2KTA1270YP000	
Q321	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q322	KRA107M	TRANSISTOR	BI2KRA107MP0008	
Q327	KTA1267GR	TRANSISTOR	BI2KTA1267GP000	
Q401	KTA1267GR	TRANSISTOR	BI2KTA1267GP000	
Q402	2SD2144S	TRANSISTOR	BI2SD2144SVP002	
Q403	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q404	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q502	2SD2144S	TRANSISTOR	BI2SD2144SVP002	
Q503	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q504	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q601	KTA1267GR	TRANSISTOR	BI2KTA1267GP000	
D1	1SS133	FR DIODE	BI31SS133M0007	
D2	1SS133	FR DIODE	BI31SS133M0007	
D3	1SS133	FR DIODE	BI31SS133M0007	
D4	1SS133	FR DIODE	BI31SS133M0007	
D5	1SS133	FR DIODE	BI31SS133M0007	
D6	1SS133	FR DIODE	BI31SS133M0007	
D7	BI3SVC203SPP000	VARACTOR DIODE	SVC203	
D8	BI3SVC203SPP000	VARACTOR DIODE	SVC203	
D9	1SS133	FR DIODE	BI31SS133M0007	
D10	1SS133	FR DIODE	BI31SS133M0007	
D50	1SS133	FR DIODE	BI31SS133M0007	
D51	1SS133	FR DIODE	BI31SS133M0007	
D306	MTZJ9.1B	Z DIODE	BI3MTZJ9.1BM000	
D307	MTZJ5.1B	Z DIODE	BI3MTZJ5.1BM0007	
D308	1SS133	FR DIODE	BI31SS133M0007	
D309	1SS133	FR DIODE	BI31SS133M0007	
D310	1SS133	FR DIODE	BI31SS133M0007	
D311	1SS133	FR DIODE	BI31SS133M0007	
D312	1SS133	FR DIODE	BI31SS133M0007	
D313	1SS133	FR DIODE	BI31SS133M0007	
D314	1SS133	FR DIODE	BI31SS133M0007	
D321	1SS133	FR DIODE	BI31SS133M0007	
D322	1SS133	FR DIODE	BI31SS133M0007	
D323	1N4001	FR DIODE	BI31N40011	
D324	1SS133	FR DIODE	BI31SS133M0007	
D328	1SS133	FR DIODE	BI31SS133M0007	
D329	1SS133	FR DIODE	BI31SS133M0007	
D330	1SS133	FR DIODE	BI31SS133M0007	
D401	1SS133	FR DIODE	BI31SS133M0007	
D402	1SS133	FR DIODE	BI31SS133M0007	
D605	1N4001	FR DIODE	BI31N40011	
R601	BIRC1520165A005	CHIP JUMPER	0	
R607	BIRC0000165A005	JUMPER	0	
R608	BIRC0000165A005	JUMPER	0	
R609	BIRC0000165A005	JUMPER	0	
R641	BIRC0000165A005	JUMPER	0	
R669	BIRC0000165A005	JUMPER	0	
L1	BICH473500KM019	CAP	0.047uH	
L2	BI605082	AM PACK COIL	7RBW	
L3	BI7A0170	FM COIL		
L4	BI7A0171	FM COIL		
L5	BI26101000KM002	FIXED INDUCTOR	100uH	
L6	BI26220000KM002	FIXED INDUCTOR	22uH	
L50	BI26221000KM002	FIXED INDUCTOR	220uH	
L301	BI605071	BIAS-COIL	864306	
L304	BI18A843556N000	FILTER BEAD	843556 TB36	
L306	BI18A843556N000	FILTER BEAD	843556 TB36	
L307	BI18A843556N000	FILTER BEAD	843556 TB36	
L601	BI26100000KM002	COIL	10uH	
L602	BI26100000KM000	FIXED INDUCTOR	10uH	
T1	BI2901541	CO. FILTER	AC009 450KHz	
BF601	BI18A843556N000	FILTER BEAD	843556 TB36	
CF1	BI29LT10.7MP015	CER.FILTER	10.7MHz	
CF2	BI29LT10.7MP015	CER.FILTER	10.7MHz	
CF3	BI29JT10.7MP015	C FILTER	10.7MHz	
CN305	BI12S110023U	FFC CONNECTOR	11P V 1.25mm	
CN306	BI12S90024U	CONNECTOR	9P V 1.25mm	
CN307	BI12S30039	CONNECTOR	3P 2.0mm	
CN308	BI12S80024	CONNECTOR	8P 2.0mm	
CN309	BI12S210004	FFC CONNECTOR	21P V 1.25mm	
CN601	BI12S160031	FFC CONNECTOR	16P 1.0mm	
CN602	BI12P601421U	CONN. WIRE	6P 120mm	
CN603	BI12P1000351U	CONN. WIRE	10P 160mm	
CN604	BI12S160033U	FFC CONNECTOR	16P V 1.25mm	
JA301	BI2301181	RCA W/R JACK	RCA-213D2	
JA302	BI2301201	TERMINAL ANT 4P	PST-404	
JR601	BIRC0000165A005	JUMPER	0	
JR602	BIRC0000165A005	JUMPER	0	
JR603	BIRC0000165A005	JUMPER	0	
LC1	BI29GFMB3TP0151	FILTER	GFMB3-T	
X1	BI2100942	CRYSTAL	75KHz	
X601	BI2102361	CRYSTAL	16.9344MHz	
XXXXX	BI11A050M0	BLACK WIRE	50mm	
XXXXX	BI202426010101	PLATE ANT	T=0.3mm	
XXXXX	BI251206G01V	PWB	MAIN PWB	

Front board

Block No. [0][2][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC701	MN101C35D	IC	BI116021	
IC702	RPM7140	IC	BI114831	
Q704	KTC3195Y	TRANSISTOR	BI2KTC3195YP000	
Q705	KTC3195Y	TRANSISTOR	BI2KTC3195YP000	
Q711	KRA102M	TRANSISTOR	BI2KRA102MP0008	
Q713	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q716	DTC114TK	TRANSISTOR	BI2DTC114TKA011	
Q717	DTC114TK	TRANSISTOR	BI2DTC114TKA011	
Q718	DTC114TK	TRANSISTOR	BI2DTC114TKA011	
Q719	DTC114TK	TRANSISTOR	BI2DTC114TKA011	
Q720	DTC114TK	TRANSISTOR	BI2DTC114TKA011	
Q721	DTC114TK	TRANSISTOR	BI2DTC114TKA011	

⚠ Symbol No.	Part No.	Part Name	Description	Local
Q722	DTC114TK	TRANSISTOR	BI2DTC114TKA011	
Q723	DTC114TK	TRANSISTOR	BI2DTC114TKA011	
Q724	DTC114TK	TRANSISTOR	BI2DTC114TKA011	
Q725	DTC114TK	TRANSISTOR	BI2DTC114TKA011	
Q726	DTC114TK	TRANSISTOR	BI2DTC114TKA011	
Q727	DTC114TK	TRANSISTOR	BI2DTC114TKA011	
Q728	DTC114TK	TRANSISTOR	BI2DTC114TKA011	
D701	1SS133	FR DIODE	BI31SS133M0007	
D702	1SS133	FR DIODE	BI31SS133M0007	
D703	1SS133	FR DIODE	BI31SS133M0007	
D705	1SS133	FR DIODE	BI31SS133M0007	
D706	1SS133	FR DIODE	BI31SS133M0007	
D1051	1SS133	FR DIODE	BI31SS133M0007	
D1052	1SS133	FR DIODE	BI31SS133M0007	
L702	BI26100000KM002	COIL	10uH	
L703	BI18A843556N000	FILTER BEAD	843556 TB36	
L707	BI26100000KM002	COIL	10uH	
L1051	BI26047000KM002	FIXED INDUCTOR	4.7uH	
L1052	BI26047000KM002	FIXED INDUCTOR	4.7uH	
L1053	BI18A843556N000	FILTER BEAD	843556 TB36	
CN701	BI12S110021	FFC CONNECTOR	11P H 1.25mm	
CN702	BI12P601431U	CONN. WIRE	6P L=50MM	
CN703	BI12P601431U	CONN. WIRE	6P L=50MM	
CN704	BI1203941	CABLE	3P	
CN705	BI1203941	CABLE	3P	
CN706	BI12S160034U	FFC CONNECTOR	16P H 1.25mm	
CN707	BI12S210005	FFC CONNECTOR	21P H 1.25mm	
FL701	BI2701941	FL DISPLAY	17LM03 41PIN	
HJ105	BI2301211	MINI JACK	CKX-3.5- 25	
JR1	BIRC0000085A003	JUMPER	0 OHM 1/8W	
JR2	BIRC0000165A005	JUMPER	0 OHM 1/16W	
JR701	BIRC0000165A005	JUMPER	0 OHM 1/16W	
JR702	BIRC0000165A005	JUMPER	0 OHM 1/16W	
JR703	BIRC0000165A005	JUMPER	0 OHM 1/16W	
JR704	BIRC0000085A003	JUMPER	0 OHM 1/8W	
LE701	BI28B4531EP0110	RED LED	BL-B4531E	
P1	BI11AT160B0U	BLACK WIRE	IP L=160MM	
S1	BI8EVQ21405P015	TACT SWITCH	S/TURBO	
S2	BI8EVQ21405P015	TACT SWITCH	STANDBY	
S701	BI8EVQ21405P015	TACT SWITCH	REC	
S702	BI8EVQ21405P015	TACT SWITCH	DUBBING	
S703	BI8EVQ21405P015	TACT SWITCH	CD REC	
S704	BI8EVQ21405P015	TACT SWITCH	REPEAT	
S705	BI8EVQ21405P015	TACT SWITCH	PROGRAM	
S706	BI8EVQ21405P015	TACT SWITCH	RANDOM	
S1002	BI8EVQ21405P015	TACT SWITCH	TAPE	
S1003	BI8EVQ21405P015	TACT SWITCH	AUX	
S1004	BI8EVQ21405P015	TACT SWITCH	FM/AM	
S1005	BI8EVQ21405P015	TACT SWITCH	CANCEL	
S1006	BI8EVQ21405P015	TACT SWITCH	SET	
S1007	BI8EVQ21405P015	TACT SWITCH	CD	
S1008	BI8EVQ21405P015	TACT SWITCH	CD1	
S1009	BI8EVQ21405P015	TACT SWITCH	CD2	
S1010	BI8EVQ21405P015	TACT SWITCH	CD3	
S1011	BI8EVQ21405P015	TACT SWITCH	OPEN	
S1012	BI8EVQ21405P015	TACT SWITCH	DISC/SKIP	
S1013	BI8EVQ21405P015	TACT SWITCH	TAPE A/B	
S1014	BI8EVQ21405P015	TACT SWITCH	CLOCK/TIME	
S1015	BI8EVQ21405P015	TACT SWITCH	STOP	
S1016	BI8EVQ21405P015	TACT SWITCH	TUN-	
S1017	BI8EVQ21405P015	TACT SWITCH	TUN+	
S1018	BI8EVQ21405P015	TACT SWITCH	PRESET-	
S1019	BI8EVQ21405P015	TACT SWITCH	PRESET+	
S1020	BI8EVQ21405P015	TACT SWITCH	ROCK	
S1021	BI8EVQ21405P015	TACT SWITCH	CLASSIC	
S1022	BI8EVQ21405P015	TACT SWITCH	POPS	
S1023	BI8EVQ21405P015	TACT SWITCH	A/BASS	
SW701	BI804221	JOG SWITCH	PVB20FHIN	
V1051	BI12P402511U	CONN. WIRE	4P L=290mm	
X701	BI29ZTA8.00P015	C RESONTOR	8MHz	
X702	BI2102471	CRYSTAL	32.768KHz	
XXXXX	BI251205G02V	PWB	FRONT PCB	

Amp. board

Block No. [0][3][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ IC304	STK412-030	IC	BI115001	
Q103	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q104	KTA1267GR	TRANSISTOR	BI2KTA1267GP000	
Q105	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q203	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q204	KTA1267GR	TRANSISTOR	BI2KTA1267GP000	
Q205	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q307	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q334	KRA107M	TRANSISTOR	BI2KRA107MP0008	
Q335	KRA107M	TRANSISTOR	BI2KRA107MP0008	
Q336	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q337	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q338	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q339	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q901	8550C	SI.TRANSISTOR	BI28550CP0005	
Q902	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q903	DTC114YS	TRANSISTOR	BI2DTC114YSP002	
Q904	KTB1366	TRANSISTOR	BI2KTB1366Y8	
Q905	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q906	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q907	KTB1366	TRANSISTOR	BI2KTB1366Y8	
Q909	KRA107M	TRANSISTOR	BI2KRA107MP0008	
Q911	KTC3199GR	TRANSISTOR	BI2KTC3199GP000	
Q912	DTC114ES	TRANSISTOR	BI2DTC114ESP002	
D304	1SS133	FR DIODE	BI31SS133M0007	
D305	1SS133	FR DIODE	BI31SS133M0007	
D325	1SS133	FR DIODE	BI31SS133M0007	
D326	1SS133	FR DIODE	BI31SS133M0007	
D327	1SS133	FR DIODE	BI31SS133M0007	
D331	1SS133	FR DIODE	BI31SS133M0007	
D333	1SS133	FR DIODE	BI31SS133M0007	
D334	MTZJ15C	Z DIODE	BI3MTZJ15CM0007	
D335	MTZJ15C	Z DIODE	BI3MTZJ15CM0007	
D336	1SS133	FR DIODE	BI31SS133M0007	
⚠ D901	G5SBA60L	DIODE	BI3G5SBA601	
D902	FR202	RECTIFIER DIODE	BI3FR202L2F	
D903	FR202	RECTIFIER DIODE	BI3FR202L2F	
D904	FR202	RECTIFIER DIODE	BI3FR202L2F	
D905	FR202	RECTIFIER DIODE	BI3FR202L2F	
D906	BI31N40011	FR DIODE	1N4001	
D907	UZ36BSA	Z DIODE	BI3UZ36BSAM000	
D908	MTZJ6.2B	Z DIODE	BI3MTZJ6.2BM000	
D909	1SS133	FR DIODE	BI31SS133M0007	
D910	MTZJ6.2B	Z DIODE	BI3MTZJ6.2BM000	
D911	MTZJ5.6B	Z DIODE	BI3MTZJ5.6BM000	
D912	MTZJ13B	Z DIODE	BI3MTZJ13BM000	
D913	MTZJ12C	Z DIODE	BI3MTZJ12CM000	
⚠ D914	RS402M	RECTIFIER	BI3RS402M1	
D916	1SS133	FR DIODE	BI31SS133M0007	
⚠ C901	BICM682101KP015	M CAPACITOR	0.0068UF/100V	
⚠ C902	BICM682101KP015	M CAPACITOR	0.0068UF/100V	
⚠ C903	BICM682101KP015	M CAPACITOR	0.0068UF/100V	
⚠ C904	BICM682101KP015	M CAPACITOR	0.0068UF/100V	
⚠ C905	BICE33865M2	E CAPACITOR	3300UF 65V	
⚠ C906	BICE33865M2	E CAPACITOR	3300UF 65V	
⚠ C923	BICM682101KP015	M CAPACITOR	0.0068UF/100V	
⚠ C924	BICM682101KP015	M CAPACITOR	0.0068UF/100V	
⚠ C925	BICM682101KP015	M CAPACITOR	0.0068UF/100V	
⚠ C926	BICM682101KP015	M CAPACITOR	0.0068UF/100V	
⚠ C927	BICE47835M61	E CAPACITOR	4700UF/35	
⚠ C928	BICE47835M61	E CAPACITOR	4700UF/35	
R3	BIRC3920085M000	C RESISTOR	3.9K OHM	
R390	1SS133	FR DIODE	BI31SS133M0007	
R919	BIRC6840085M000	C RESISTOR	680K OHM	
L101	BI2601141	COIL	3.0UH	
L201	BI2601141	COIL	3.0UH	
CN307	BI12S90024U	CONNECTOR	9P P=1.25mm	
CN701	BI12S110020	CONNECTOR	11P	

⚠ Symbol No.	Part No.	Part Name	Description	Local
CN951	BI12S90025U	CONNECTOR	9P P=2.5mm	
RY301	BI8RL00071	RELAY	G5PA-2	
XXXXX	BI251217G03V	PWB		

Power trans board

Block No. [0][4][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
⚠ C951	BICT224275M	CAPACITOR	0.22UF 275V	
⚠ R951	BIRC3352	RESISOTOR	3.3M OHM	
F951A	BI201196010101	FUSE HOLD	CX-NV300	
F951B	BI201196010101	FUSE HOLD	CX-NV300	
F952A	BI201196010101	FUSE HOLD	CX-NV300	
F952B	BI201196010101	FUSE HOLD	CX-NV300	
FW951	BI12P900551U	CONNETOR ASSY	9P	
⚠ TB901	BI201323010101	TERMINAL	1P	
⚠ TB902	BI201323010101	TERMINAL	1P	
XXXXX	BI251223G01V	PWB	1.6MM	

Wiring assembly

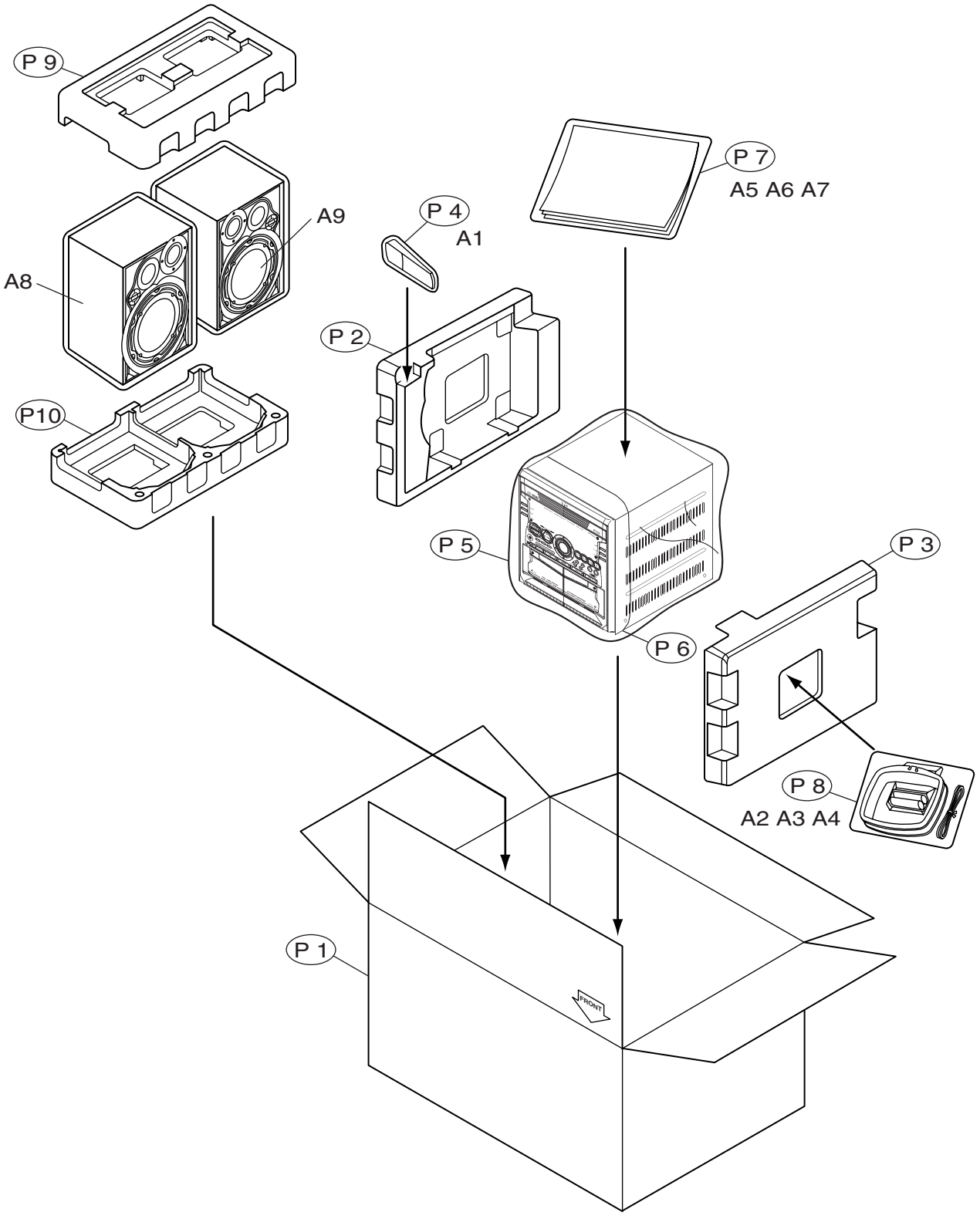
Block No. [0][5][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
CN305	BI1205441U	FF-CABLE	11P	
CN306	BI1205261U	FF-CABLE	9P	
CN309	BI1205241U	FF-CABLE	21P	
CN601	BI1205291U	FF-CABLE	16P	
CN604	BI1205251U	FF-CABLE	16P	
CN701	BI1205281U	FF-CABLE	11P	
DECK	BI12P302151U	WIRE 360MM	3P	
DECK	BI12P801021U	WIRE 485MM	8P	
DECK	BI11AT065B0U	WIRE 73MM	1P	

<MEMO>

Packing materials and accessories parts list

Block No. M 3 M M



Packing and accessories

Block No. [M][3][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
A 1	BI600MKB30050	REMOTE CONTROL		
A 2	----------	BATTERY	(x2)	
A 3	BIAN01031	AM LOOP ANT		
A 4	BIAN01012	ANT WIRE		
A 5	BI4032613U	WARRANTY CARD	BT-51034-1(0301)	J
A 5	BI4032823	WARRANTY CARD	BT-52006-2(1002)	C
A 6	BI4032603U	SAFTEY CARD		
A 7	BI4412871U	INST BOOK	LVT1191-001A (ENG)	J
A 7	BI4412941U	INST BOOK	LVT1191-002A (ENG FRE)	C
A 8	MXKB30J-SPBOX-L	SPEAKER BOX L		
A 9	MXKB30J-SPBOX-R	SPEAKER BOX R		
P 1	BI4314011U	CARTON BOX		J
P 1	BI4314161U	CARTON BOX		C
P 2	BI4512251	POLY FORM	LEFT	
P 3	BI4512261	POLY FORM	RIGHT	
P 4	BI4005355	POLY BAG	REMOTE CONTROL	
P 5	BI4710322U	POLY BAG	SET	
P 6	BI4511451	EPE FOAM PAPER	SET	
P 7	BI4710312U	POLY BAG	INST BOOK	
P 8	BI4710572U	POLY BAG	ANT LOOP	
P 9	BI4513181U	POLY FORM	SP-BOX TOP	
P 10	BI4513191U	POLY FORM	SP-BOX BOTTOM	